



AACM : How can the error of the Gyro compass be determined?

A : By taking a transit bearing with the gyro compass of two prominent fixed shore objects and comparing it with the bearing of the same objects on the chart

AAET : Which electronic component does this graphical symbol represent?

A : Transistor

AAJT : What symptom would you think shows that the freon filter drier has become blocked?

A : A large temperature drop across the drier.

AAJU : Which one of the listed requirements for passenger ships regarding personal life-saving appliances do not correspond to present regulations?

A : All lifejackets shall be fitted with a whistle, a light and a smoke signal

AALB : In open sea where it is allowed to do water washing of cargo tanks, how much oil is the ship allowed to pump overboard to fulfil the regulations in force(IMO) ?

A : 30 litres pr. nautical mile.

AAMJ : Which international regulations govern the disposal of waste material, including galley waste, from ships?

A : Annex V, MARPOL 73/78.

AAQB : A section of seawater pipe has been removed for maintenance. When refitting the pipe after completing the work the bolt holes in the flanges are found to be misaligned. What procedure should be followed to finish the work?

A : Adjacent pipework should be slackened off to allow the pipe to be aligned. Any incorrectly positioned brackets should be adjusted after the pipe is refitted.

AAWE : Which one of the following items has to be included in an abandon ship drill?

A : lowering of at least one lifeboat after any necessary preparation for launching

ABAF : What is the status and function of a Panama canal pilot?

A : He has control of the navigation and movement of the vessel

ABAM : Reduced capacity accompanied by vibration and noise at the suction of a centrifugal pump results from the action of vapor pockets in the fluid being pumped caused by:

A : Cavitation

ABBG : Diodes are widely used in rectification, or the conversion of alternating current to direct current. The sinusoidal input voltage $V_{(in)}$ is applied to the circuit shown. Which of the output voltages is correct ?

A : Figure 1



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

ABBG : Diodes are widely used in rectification, or the conversion of alternating current to direct current. This circuit symbol is such example. The input voltage V_{in} is sine-wave AC. Which of the shown output voltages is correct for this circuit?

A : Figure 1

ABDQ : Indicate the correct name for the tool on the sketch:

A : Water Pump Pliers

ABEN : A rocket parachute flare reaches an altitude of

A : not less than 180m

ABFC : You are in an area of restricted visibility and hear this signal. It is repeated at two minute intervals. What does it indicate?

A : One long blast followed by two short blasts at intervals of not more than 2 min

ABHV : On the figure 4 possible definitions of the term "FORWARD BREAST LINE" are given. Which one is the correct one?

A : Forward breast line is given by C on the figure

ABKI : When there is doubt about the freshness of the atmosphere in enclosed or confined spaces, what action should be taken?

A : Arrangements should be made for testing of the atmosphere to ensure maintenance of 21% oxygen and a carbon monoxide content below 50 ppm in the atmosphere of the space

ABKJ : Between a complete removal and a renewing of floor polish what can you do to maintain a PVC floor surface?

A : By soft machine scrubbing with red pad and a renewing of polish only where there is heavy traffic (f.i. in the middle of corridors and not the whole floor).

ABLH : Is the master under obligation to do a maritime inquiry if a crewmember suffered a considerably injury onboard and died after a week on a hospital ashore?

A : Yes, even if he/ she did not die while onboard.

ABMW : On a Container vessel, what determines how containers should be lashed?

A : The cargo securing manual

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ABPJ : Who shall carry out the detailed preliminary supervision of maritime service of seafarers before the commencement of service?

A : The employer/master.



ACAJ : Give the meaning of the following symbol

A : Secure hatches

ACBX : Why shall a duly qualified officer supervise any potential polluting operation?

A : To avoid pollution.

ACGC : What is important to check when transferring a position from GPS to a chart?

A : Ensure that the chart and the GPS use same datum

ACGC : What is important to check when transferring a position from the GPS output to a paper chart?

A : Ensure that the chart and the GPS use same datum

ACIM : Enthalpy is an expression of how much energy is tied up in one kilo of a substance. A substances total energy consists of;

A : External and internal energy.

ACIM : When carrying LNG cargoes it is useful to have information about its thermodynamic properties. What is a common source of information that can be used to obtain values for a wide range of these properties?

A : A Mollier chart.

ACIT : When will a hatch cover cross-joint wedge need replacement?

A : When the flat spring is missing

ACIT : When will a hatch cover cross-joint wedge need replacement on a General Cargo Vessel?

A : When the flat spring is missing

ACJL : A triac is used to provide temperature control of an oven. The galley complain that the oven only reaches approximately 50% of demanded temperature. Which of the following is a likely cause?

A : One of the main switching elements in the triac has failed.

ACKJ : Which of the following names is given to the basic types of foam as far as they are differentiated according to the way bubbles are obtained:

A : Chemical foams

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A : Chemical foams



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

ACMU : What is meant by the atmosphere in a cargo tank being "too rich" or "too lean"?

A : Atmosphere is not combustible in either situation.

ACPG : How does low expansion foam act as an extinguishing agent when dealing with oil fires?

A : By smothering and also by providing some cooling

ACUJ : You are proceeding along a narrow channel behind another vessel. You have a higher speed and have signalled your intention to the vessel ahead that you intend to overtake him on his port side. The vessel responds with this sound signal. What does it mean?

A : That the vessel is indicating her agreement with my proposed manoeuvre.

ACVX : What is the minimum number of lifebuoys carried by a cargo vessel of more than 200 metres in length?

A : 14

ACXK : A lifebuoy light is capable of working at minimum for a period of, and has a luminous intensity of:

A : 2 h, 2 candelas (about 1,7 mile range at normal meteorological sight)

ACYL : What should be carried out before entering the pump room?

A : Notify the Chief Officer or officer on duty and run the ventilation for at least 15min

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ADAM : In describing an oil cargo, what is its "pour point"?

A : The lowest temperature at which it will remain fluid

ADDQ : What is the purpose of the LD (Low duty) Compressors on a LNG carrier?

A : For handling the LNG vapour for the boiler.

ADDQ : What is the purpose of the LD (low duty) compressors on an LNG carrier?

A : To handle the LNG boil-off vapour for fuelling the boiler.

ADLS : Other than the official log book what other publications must be carried on board a vessel

A : Charts, nautical publications, GMDSS log, Oil Record book(s)



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

ADNN : Which of the following spaces may be protected by a fixed carbon dioxide (CO2) fire-extinguishing system?

A : Machinery spaces of category A

ADQO : What do you understand by the term 'Terminal Representative'?

A : A person appointed by a cargo terminal for operations conducted by that terminal with regard to a ship

ADQP : You have just joined a chemical tanker. Where would you find a description of the ships cargo handling equipment and details of procedures for cargo unloading, tank stripping, tank cleaning, discharge of residues and ballasting and deballasting?

A : The Annex II Procedures and Arrangements Manual.

ADQP : You have just joined a chemical tanker. Where would you find a description of the ships cargo handling equipment, details on the ships cargo unloading procedures and tank stripping and details on procedures relating to the cleaning of cargo tanks, the discharge of residues, ballasting and deballasting?

A : The Annex II Procedures and Arrangements Manual.

ADSH : The Training Manual shall contain instructions and information on the life-saving appliances and the best method of survival. The training manual shall contain detailed explanations of crew duties in relation to emergency situations. Which of the following tasks or duties shall be included in the manual according to present regulations?

A : The use of the ships line throwing apparatus.

ADTB : Why did they order another tug?

A : Because they wanted to make sure that the ship could be turned safely.

ADVC : Can a British Consular official detain a vessel whilst in a foreign port?

A : Yes - any consular official can detain a vessel

AEAV : A contractor is hired to install new navigation equipment onboard your ship while it's berthed. For a period of time he's left unsupervised and photographs schematics of the ship that he finds rolled up and stored in the corner of a nearby office. Later, from home, he hacks into the network and prints off information about the ship's security procedures. Which of these information security measures would have prevented his unauthorized access?

A : Secure area, passwords, a firewall and a secure network.

AE CJ : A drip tray containing oil is on fire. The only fire fighting equipment available is water hose with spray jet/spray nozzle. How, if at all, should you attempt to put out this fire using water?

A : The water can be applied in a fine spray starting from the front in a sweeping motion.

AECL : What is the correct chemical name for Caustic Soda in liquid form?

A : Sodium Hydroxide Solution

AEFB : The death of a passenger occurs on board, what legal actions must be taken by the Master?

A : First aspect confirm death. Notify company, and next-of-kin, and if on board to be advised and comforted as may be required. Arrange to have body moved to freezer area. Notify local agents and British Consul when abroad. Entry to be made in Record of Bir



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

AEII : Normally ventilation fans in enclosed ro-ro spaces must be run continuously whenever vehicles are on board, why?

A : An increased number of air changes may be required when vehicles are being loaded or unloaded, or where flammable gases or liquids are stowed in closed ro-ro spaces

AEJA : One water fog applicator is required for each pair of breathing apparatus on board which type of ship?

A : Passenger ships carrying more than 36 passengers

AEKL : If a seaman has to walk across a stow of cartons containing perishable foodstuffs what should he do to minimise the risk of damage to the contents? Select the most appropriate option from those given.

A : He should step on the corners of the cartons.

AEKV : At least how often shall rescue boats be launched with their assigned crew and manoeuvred in the water?

A : Every three months

AEMQ : What colour flare is used to signal a highly dangerous landing place ?

A : Red

AENE : Feed check valves for main and auxilliary purposes are normally of the double shut off type, as shown in the diagram. What is the main function of the non-return valve?

A : To prevent the steam and water in the boiler from discharging out by the feed line, if a feed line fracture or a joint in the line blows.

AEOA : Which is the preferred method for starting an air conditioning refrigeration compressor which has been shut down for a period of time?

A : Start with suction valve throttled in to minimise risk of drawing liquid refrigerant into the compressor.

AEOC : Are there any restrictions for transit of the Suez canal?

A : The Suez Canal is a sea-level canal. There are beam and draft restrictions for very large vessels

AEOG : What is the purpose of the unscheduled inspections on board ships?

A : To determine whether the ship is seaworthy

AEPT : If you use chemicals for cleaning up an oil-spill on the water, what would the chemicals do?

A : Disperse or dissolve the oil into the water

AEPV : You are on a vessel 10 nautical miles off the coast of Nigeria, West Africa. Are you allowed to dump empty glass bottles overboard ?

A : Yes, the bottles can be dumped if they are ground so that the resulting particles can pass through a screen with 25 mm openings



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

AF CJ : Why are all RoRo passenger ships divided into vertical 'zones'?

A : Vertical zones are fire zones which can be divided from each other with fire doors. In case of fire, all fire doors in front and aft of the fire will be closed to prevent spreading of smoke/fi

AF CL : You are inerting a cargo tank on an oil tanker, prior to gas-freeing for entry and inspection. What is the maximum oxygen content permitted in the inert gas main during this operation, as required by SOLAS 1974?

A : 5% by volume.

AF CL : You are inerting a cargo tank on an oil tanker, prior to gas-freeing for entry. What is the maximum oxygen content permitted in the inert gas main during this operation, as required by SOLAS 1974?

A : 5% by volume.

AF CL : You are inerting a cargo tank on an oil tanker, prior to gas-freeing for entry. What is the maximum permitted oxygen content in the inert gas main as required by SOLAS 1974?

A : 5% by volume.

AF FG : The abbreviation "NPSH" is often seen in connection with the efficiency of cargo pumps on oil tankers. What does this abbreviation stand for?

A : Net Pressure Suction Head.

AF HF : In the type of fluorescent lamp system shown in the illustration, the role of the starter is to perform which of the following?

A : To pass current through the lamp heaters and then interrupt the inductive striking current.

AF HF : In the type of fluorescent lamp system shown in the illustration, the role of the starter is to perform which of the following?

A : To pass current through the lamp heaters, and then interrupt the inductive striking current.

AF PT : You are in open water and clear conditions. You are approaching the pilot station when you hear this signal from a vessel ahead of you. What does it signify?

A : That the vessel is operating astern propulsion.

AF QI : What is the normal thickness of the primary barrier (membrane) on membrane containment?

A : 0.7 - 1.5 mm thick.

AF QI : What is the normal thickness of the primary barrier (membrane) on membrane containment type systems?

A : 0.7 - 1.5 mm

AF QI : What is the normal thickness of the primary barrier (membrane) on membrane containment type systems as used in LNG carriers?

A : 0.7 - 1.5 mm



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

AFQY : What is the weather associated with being in the centre of an Anticyclone (a region of High Pressure)?

A : Light winds and fair weather, sometimes fog.

AFRF : On board a DSC-call is to be made in case of an OBS. Choose the category:

A : routine

AFTY : To make a "call-request" one should:

A : select the telex in on-line position

AFVO : High Voltage (HV) cables are smaller than low voltage cables for a given power rating. Why is this?

A : The HV cable carries a smaller current and therefore requires less copper.

AFYY : When discussing the properties of an oil cargo, what is the "wax content"?

A : When unsaturated chemical compounds are heated under pressure, the molecules react with each other and form large molecules.

AGCH : Indicate the correct name for the tool on the sketch:

A : Flat file

AGCP : What types of fire extinguishers shall be used in the engine room?

A : Fire extinguishers equipped for powder or CO2 only.

AGDW : On a RoRo vessel, when loading Double Stacked containers on Maffi Trailers how many twist locks should have used between the 2 containers

A : One on every corner 4 in total

AGDW : What contributes most to rust formation on vehicles / Ro-Ro units?

A : Cargo hold ventilation systems and associated ducting

AGEA : During mooring operations which is the safe place to be in?

A : Outside the colored zone.

AGEC : What product is mainly used in wall-washing?

A : A tank is only to be considered as gas free when no traces of flammable and/or poisonous gas are measured and in addition O2 content is measured to be 21 %.



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

AGFQ : How many rescue boats should be provided on ro-ro passenger ships of 500 gross tons and above?

A : Two, and at least one of the rescue boats shall be a Fast Rescue Boat

AGGL : In which way may intake of poisonous material occur?

A : All mentioned.

AGGM : On the figure 4 possible definitions of the term "FAIRLEAD" are given. Which one is the correct one?

A : Fairlead is given by C on the figure

AGKP : When is a ro-ro vessel likely to pitch heavily?

A : When wave lengths are roughly equal to the ship's length

AGKP : When will a ro-ro vessel pitch heavily?

A : When wave lengths are equal to the ships length

AGLK : Falls used in launching shall be turned end for end at an interval of not more than X months and to be renewed not later than every Y years, where the intervals are:

A : 30 months / 5 years

AGOS : What is a steering wheel?

A : A helm used to steer the ship.

AGOS : What is understood by the term "take the helm"?

A : Take over the steering of the ship.

AGQB : When you are taking an "ullage" on a cargo tank on an oil tanker, what are you actually doing?

A : Measuring the distance from the surface of the cargo to the ullage reference point

AGQH : Part of the outer surface of a refrigeration compressor crankcase and the refrigerant return line near the compressor ice up heavily during normal operation. Which of the options given is the most likely cause of this problem?

A : The superheat control setting for the thermostatic expansion valve is set too low.

AGRJ : Having a CO2 alarm during normal working hours, what immediate action should be taken?

A : Get out of the engine room as soon as possible.



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

AGRL : How will you calculate transverse accelerations?

A : Multiply the values taken from tables 2, 3 and 4 of the Cargo Stowage and Security (CSS) Code

AGUR : What are the compressors fitted as part of the cargo system onboard LNG carriers normally used for?

A : Removing boil-off gas.

AGUR : Which type of compressors is used as cargo compressors onboard gas carriers?

A : Piston, screw and centrifugal type compressors.

AGXI : What would be the main effect on a refrigeration system of insufficient cooling water flow through the condenser?

A : High delivery pressure

AGXI : What would be the main effect on a refrigeration system of insufficient cooling water flow through the condenser?

A : Increased delivery pressure

AGYC : Which term is used to refer to the quantity of heat required to raise the temperature of one kilogram of any particular substance by one degree Celsius?

A : Specific heat

AGYC : Which term is used to refer to the quantity of heat required to raise the temperature of one kilogram of any particular substance by one degree Celsius?

A : Specific heat or specific heat capacity.

AGYT : What is the correct initial firing procedure to be adopted when bringing a main steam boiler up to pressure from cold condition?

A : Start with intermittent firing, using small firing periods and long intervals gradually building up to longer firing periods and shorter intervals until steam pressure starts to rise.

AHCF : Which of the following features is required for an anti-exposure suit ?

A : does not sustain burning or continue melting after being totally enveloped in a fire for a period of 2seconds

AHCJ : VHF CH 70 ALL SHIP DISTRESS 2275200 DISTRESS RELAY 227990850 FIRE N 50 00 W 000 10 11:10 EOS What is false regarding the above call ?

A : This call will normally be followed by a DSC acknowledgment call

AHGM : What is EPIRB an abbreviation for?

A : Emergency Position Indicating Radio Beacon.



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

AHIC : The following DSC was received At what time received? (27.05.1997 23:23 CALLED VHF CH70 FORMAT: DISTRESS DIST-ID: 367449000 N
OF: UNDESG DISTRESS POSITION: N 52.43 E04.maj DIST-UTC: 00:00 TELECOM: G3E SIMP TEL EOS:
E O S)

A : 23:23

AHIF : How many lifebuoys can you expect to find on board a cargo ship of 190 metres in length including those of the quick-release system) ?

A : at least 12 distributed on both sides of the ship

AHIJ : A bulk carrier is loading to complete on summer draught of 10.00m when in salt water; the vessel is loading in river water; The dock water allowance is 80mm ; the maximum draught when loading is completed is??

A : 10.08 metres

AHJU : What should you do if the temperature of Hydrogen Peroxide Solution 65 % carried is raising 2° C per 5 hours and the temperature is above 40° C ?

A : To avoid uncontrolled decomposition the cargo should be discharged overboard.

AHKW : If your vessel was to load sugar which of these situations would result in the cargo holds failing inspection?

A : Traces of insect infestation in the bilges

AHKW : On a bulk carrier which is to load sugar, which of the following situations would result in the cargo holds failing inspection?

A : Traces of insect infestation in the bilges

AHTR : Does the Health & Safety Executive (HSE) have authority in dealing with shipping matters

A : The HSE has authority only where an interface exists between the ship and shore e.g. means of access regs. In a serious case, they would contact the local Marine Officer

AHUN : The Master is responsible that all crew participate in monthly emergency drills. If 25% of the crew -or more- has not participated in such drill during the last month, what is the time limit to conduct such a drill after the vessel has left a port?

A : Within 24 hrs.

AHVI : Which of this information must be included in a piracy attack alert?

A : Your ship's name and call sign.

AHWA : Is it necessary to construct a passage plan, (or voyage plan), for transiting a canal or river, when under pilot?

A : - A passage plan is always required, irrespective of the length of the \ voyage, or if the ship is under pilot

AHWA : Is it necessary to construct a passage plan, (or voyage plan), for transiting a canal or river, when under pilot?

A : Vessels with bulbous bow, LPG- and LNG-vessels must provide their own projector



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

AHWE : On the figure 4 possible definitions of the term "PANAMA LEAD" are given. Which one is the correct one?

A : Panama lead is given by C on the figure

AHWF : You are the Officer in Charge during the loading of a tanker at a terminal in the Persian Gulf. The deck watchman reports "There is a lot of oil on the water to starboard". What should be your FIRST action?

A : Tell the jettyman to stop loading immediately.

AHXB : Sea area A4 is in maritime radio traffic a sea area:

A : outside the sea areas A1, A2 and A3

AHXB : Sea area A4 is in maritime radio traffic sea area:

A : outside the sea areas A1, A2 and A3

AIGK : What is the main requirement of a lookout posted on the bridge?

A : Good eyesight and able to communicate with the OOW (officer on watch)

AIHG : From the statements given in the answer options, choose the one which is most accurate in relation to the operation of water-tube boiler and fire-tube boilers.

A : Water-tube boilers are more efficient and contains less water. They suffer from major damages when run dry during operation.

AIHG : From the statements given in the answer options, choose the one which is most accurate in relation to the operation of water-tube boiler and fire-tube boilers.

A : Water-tube boilers are more efficient and contains less water. They suffer from major damages when run dry during operation.

AIIW : What does wet washing mean?

A : The bottom washing starts whilst there is still a small amount of cargo in the tank.

AING : Which of the following is a chemical commonly added to cleaning substances used to clean galley areas?

A : Bleach.

AINU : Which of the following items shall be included in an "abandon ship"-drill?

A : Checking that passengers and crew are suitably dressed and lifejackets correctly donned

AINY : Which class of emission is used for FEC NBDP transmissions ?

A : F1B



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

AIQE : You are crude oil washing tank 1C tank. The duty deck officer reports that the oxygen reading in the tank is 9%. What should you do ?

A : Stop the washing process and not resume until the oxygen content in the tank is below 8%.

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A : Stop the washing process and not resume until the oxygen content in the tank is below 8%.

AI SX : In a smoke filled alleyway where will the cleanest air be found, and how should you proceed out?

A : Near to the deck, crawl out keeping your face as near to the deck as possible.

AI SY : According to 33 CFR 156, oil tankers trading in US waters are required to test and document the testing of cargo transfer hoses and transfer pipe system. What is the minimum requirement when testing these components?

A : Test pressure equal to 1.5 times the maximum allowable working pressure

AI WE : Which one of the listed requirements regarding fire protected lifeboats do not correspond to present regulations? Water spray systems shall:

A : have separate draining pumps of sufficient capacity

AI WH : Give the meaning of the following symbol

A : Start water-spray

AI XA : Which of the given options characterizes a 2-stroke diesel engine ?

A : A 2 stroke engine completes a full cycle every revolution

AI XA : Which of the given options characterizes a 2-stroke diesel engine ?

A : A 2 stroke engine has an ignition every time the piston reaches its top position.

AI JA S : On a Container vessel, where should a mid-bay guide be positioned?

A : On the tank top mid-way in 40 guides to prevent transverse movement of 20 containers.

AI JB F : In which provision of the Act in question is the responsibility of the master for the observation of the provisions relating to supervision of maritime service stated?

A : In Section 6 of the Act.

AI JB F : In which provision of the Act is the responsibility of the master for the observation of the provisions relating to supervision of maritime service stated?

A : In Section 6 of the Act.



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

AJIA : Most fruit cargoes carried under refrigeration require introduction of fresh air into the cargo space to remove any excess carbon dioxide and ethylene produced by respiration of the cargo and sensors are fitted to detect these gases. Shippers instructions will often indicate constant air change as a requirement for a cargo. Why, even though this is a crude method for controlling the cargo space atmosphere, is this type of instruction given?

A : Some cargoes are very sensitive to ethylene levels and it may be difficult to accurately measure the low levels that would affect a cargo.

AJMX : What is the main vitamin found in flour and grain products?

A : Vitamin B

AJOL : Your vessel have been in collision with an other vessel. You are taking in water and you have to prepare for leaving the vessel. How will you act?

A : Send a distress message and collect survival suits / thermal bags.

AJRA : On the figure 4 possible definitions of the term "HEIGHT" are given. Which one is the correct one?

A : Height is given by D on the figure

AJSP : The frequency 121,5 MHz is used for :

A : SARSAT-COSPAS EPIRBs

AJUH : The battery of an EPIRB should be changed

A : Every four years

AJWX : During duplex mode you are able to:

A : interrupt

AJXS : By reduced transmitting power is meant in VHF a power between:

A : 0,5 - 1 watt

AKAH : What is the most likely reason for vibration and noise at the suction side of a centrifugal pump when it is running?

A : Cavitation

AKAH : What is the most likely reason for vibration and noise at the suction side of a centrifugal pump when it is running?

A : Collapsing vapour bubbles due to cavitation.

AKAJ : If oil flows out of the bowl casing drain of a solids ejecting separator what is the most likely problem

A : Insufficient amount of bowl closing water



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

AKAT : On some trades fruit cargoes may be subjected to in-transit cold treatment also known as cold treatment. From the options given which is the main purpose of this cold treatment?

A : To maintain a specified minimum temperature for a prescribed time period to kill off any fruit fly which may be present when loading the cargo.

AKFY : What could be the possible cause of an engine knocking?

A : Any of the below

AKGL : What is the MARPOL definition of a "high-viscosity substance"?

A : A noxious liquid substance in category "X" or "Y" with a viscosity equal to or greater than 50 mPa.s at the unloading temperature.

AKMY : What are we seeing here?

A : A sailing vessel less than 20 metres in length, displaying the optional combined lantern in lieu of standard sailing lights, seen head-on.

AKNP : What significant change to the requirements for the carriage of Vegetable Oils in tankers was introduced by the amendments to MARPOL and the IBC Code on 1st January 2007?

A : They must now be carried in double-hull tankers.

AKPG : Emergency instructions in appropriate languages shall be posted in passenger cabins. Which information shall as a minimum be included in the emergency instructions?

A : The method of donning life-jackets, escape routes and alarm signals

AKPH : There are many types of pumps fitted onboard ship which an engine room rating may be required to assist with the maintenance of. Which type of pump is shown in the illustration?

A : A centrifugal pump.

AKQA : On a cargo ship, where should we find the hydrants ?

A : At such locations that at least two jets not emanating from the same hydrant may reach any part of the ship normally accessible to the crew while the ship is being navigated, one of these jets coming from a single length of hose (the other jet may come from a connection of several lengths of hoses)

AKRL : When lashing general cargoes why are short lashings preferred to long ones?

A : Because they are more easily tightened and held in tension

AKRP : When is it compulsory to use emergency wires / fire wires for mooring the vessel?

A : During loading/discharging of persistent/non persistent oil?

AKRT : A lifejacket is so constructed that a person can correctly don it within a period of:

A : 1 min



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

AKRW : According to the rules of GMDSS vessels are equipped with certain radio-communication devices depending on:

A : the sea areas

ALDR : Which one of the listed requirements regarding enclosures of totally enclosed lifeboats do not correspond to present regulation? The enclosures shall be provided with:

A : windows on both sides which can be closed watertight and opened for ventilation

ALEN : What is the colour of the smoke signal used by life-saving stations or rescue units indicating that distress signals are observed in daylight?

A : Orange

ALIJ : Does liquid turbulence improve the efficiency of a Plate Heat Exchanger?

A : Yes.

ALUC : If the general/fire alarm are sounding, and evacuation is required. What is the best way to ensure that all passengers are aware of the situation?

A : Public announcement system to be used for informing. The cabin attendant should proceed to their cabin section, and search all cabins. If the area is inaccessible report to their superior.

AMAX : Which item among those below is included in the normal equipment of every lifeboat ?

A : two efficient painters

AMDH : What do you call the plan on board dealing with the distribution of the crew and their duties at fire fighting?

A : Alarm instruction

AMDJ : What is most important for the personnel on duty to supervise during a discharging operation including crude oil washing?

A : Act according to the check list "during crude oil washing".

AMDV : Why do some diesel engine manufacturers recommend machining the valve spindle sealing surface with a half degree difference to the valve seat angle?

A : To improve valve sealing by compensating for pressure and temperature effects on the

AMEG : Which class of emission is used for VHF DSC transmissions ?

A : G2B

AMGW : Which documents shall the master submit to the consulate for supervision of maritime service of a Non- Norwegian rating?

A : Employment agreement, report on seamen and documentation that the seafarer has the necessary qualifications, health certificate, record of service



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

AMGW : Which documents shall the master submit to the consulate for supervision of maritime service of, lets say, a Non- Norwegian rating?

A : Employment agreement, report on seamen and documentation that the seafarer has the necessary qualifications, health certificate, record of service

AMGX : Why do we use stabilisers on passenger ships?

A : To decrease the rolling angle of the vessel

AMHQ : What are the duties of the master regarding a sick or injured seafarer?

A : He shall arrange for proper care within what he may find to be reasonable expenses

AMJC : What should be observed concerning a ships watertight integrity?

A : That all water tight ramps and doors are locked and secured at sea

AMMJ : By which method is the Vapour Pressure of Crude Oil determined?

A : The Reid Closed Test method.

AMMR : How often is revalidation of Basic Training qualifications required under STCW

A : Every 5 years

AMON : If an inhibitor is added to an oil cargo, which of the following is a summary list of items to be included on its accompanying certificate?

A : Inhibitor name; amount added; date added; period of efficiency; precautions if voyage length exceeds that period; eventual temperature limitation.

AMPX : Which equipment is utilised to control the liquid level in the cargo tanks?

A : In the cargo tanks we use either float or radar type gauge to control the liquid level

AMVW : What kind of warning signs should be placed on manholes into void spaces?

A : Warning signs that indicate lack of oxygen inside

AMWO : What should be done to assist a survival craft in keeping alongside own vessel?

A : Stretch a painter from fore to aft

AMWT : What can be done to help pump out water from the cargo space of a bulk carrier, when washing down during cleaning operations?

A : Chief Officer to ballast ship to provide large stern trim



AMYI : The mandatory color of a hand flare is

A : Red

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AMYI : The mandatory color of a hand flare is:

A : Red

ANBU : What is the prescribed time and place for a maritime inquiry after the occurrence?

A : In the port where the occurrence took place/ first port of call after the occurrence took place - postponed only in exceptional cases and pursuant to provisions.

ANDG : Which one of the following items has to be included in an abandon ship drill?

A : starting and operating the lifeboat engine

ANKE : What are the general cargo stowage requirements for cashew nut shell liquid in drums?

A : Stow away from foodstuffs

ANML : Zinc anodes are used on the seawater side of heat exchangers to:

A : Protect against corrosion

ANMN : Between the sea water and fresh water systems there are blanked off connecting pipes. These connections can be used in cases of:

A : Fresh water system failure

ANNG : Which electronic component is this graphical symbol illustrating:

A : Capacitor

ANNG : Which electronic component is this graphical symbol illustrating?

A : Capacitor



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

ANNY : Use of and is strictly prohibited on the ro-ro deck, signs shall be displayed

A : Naked lights and Smoking

ANNY : Use of and is strictly prohibited on the ro-ro deck, signs shall be displayed

A : Naked lights and Smoking

ANQY : How many rocket parachute flares are carried in each lifeboat?

A : 4

ANQS : Which group of electrical services are likely to be supplied from an emergency generator?

A : Steering gear and alarm system

ANQS : Which group of electrical services are likely to be supplied from an emergency generator?

A : Steering gear and engine room alarm system

ANRQ : While securing tank lids prior to loading, you notice that the packing from one is damaged and hanging down. What will you do?

A : Report it immediately to the duty officer. Notify other watchkeepers, so that the lid is not closed in error, prior to the problem being rectified.

ANSH : In a large, 2 stroke, main diesel engine cylinder lubricating oil is supplied directly through lubrication points cut into the cylinder liner. At what point during the cycle should the supply normally occur.

A : As the piston passes "The Lubrication Points" in an upward direction.

ANSK : What is a characteristic of all centrifugal cargo pumps?

A : Decreasing the speed of rotation will decrease the discharge pressure.

ANSM : When we are using a diode to convert AC to DC, it is usually referred to as a

A : Rectifier

ANSM : When we are using a diode to convert AC to DC, it is usually referred to as which of the following?

A : Rectifier

ANXC : When a fire breaks out in the engine room, who is in charge of the fire fighting operations?

A : The Chief Engineer



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

ANXQ : Why do blunt knives cause accidents?

A : Because they require more pressure to be used and are more likely to slip.

ANYX : What is the requirement with regard to Familiarisation on board?

A : Seafarers, on being assigned to any ship, shall be familiarized with their specific duties and with all ship arrangements, installations, equipment, procedures and ship characteristics that ar

ANYX : Who is responsible to carry out Safety Familiarisation training on board

A : Safety Officer

AOAN : Why is it important to have knowledge of assembling stations, even though you have no specific role during an emergency?

A : Enables you to correctly guide and direct passengers during an emergency.

AOBP : After complete shut down of the steam plant, the boiler have been heated in accordance to correct starting up procedure, and is now firing at working pressure. You are going to open the main steam valve to the system. What will be the correct procedure for this operation?

A : Open steam valve very slowly, considering system expansion.

AOBR : What is the reason to too high pressure in the fuel oil separator oil outlet line?

A : Valve in the outlet line partly closed.

AOCM : For what purpose do we have deck water spray on gas carriers?

A : To flush cargo spill overboard, cool cargo area and protect crew in case of fire or cargo spill.

AOCM : Gas carriers are fitted with a deck water spray system? In addition to providing protection against fire and protection for the crew and cooling in the event of a fire in the cargo area, what is the other main purpose of having this system?

A : To flush cargo spill overboard and protect crew in case of a cargo spill incident.

AOCM : LNG carriers are fitted with a deck water spray system? In addition to providing protection against fire and protection for the crew and cooling in the event of a fire in the cargo area, what is the other main purpose of having this system?

A : To flush cargo spill overboard and protect crew in case of a cargo spill incident.

AODC : Under MARPOL 73/78 what category would wet kraft paper remaining on board, constitute?

A : Garbage

AODG : You are the Officer on Watch on an oil tanker during a discharging operation. An alarm on the Inert gas Plant indicates that no inert gas is being supplied to replace the discharging cargo. What will you do?

A : Immediately stop the discharging.



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

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A : Immediately stop the discharging.

AOHG : How often should normal testing of the cooling water be done?

A : Once a week.

AOHJ : What documentation must the Master inspect when signing on a new rating?

A : The AB's Certificate (or equivalent), the seaman's discharge book, the medical certificate

AOJD : What is the ideal working temperature for physical work?

A : 17 - 20° C

AOMD : What is the correct name of the part highlighted in the sketch?

A : Piston rod

AOML : Which cell voltage is required to trickle charge a lead acid battery?

A : 2.15 V

AOQQ : What does the abbreviation MRCC mean ?

A : Maritime Rescue Coordinating Centre

AOVT : Which of the given statements can be considered as the most accurate according to the IMO Gas Codes and other LNG industry standards?

A : Methane is considered as presenting a flammable hazard and may also be an asphyxiant.

AOWN : MMSI is short form
o f :

A : Maritime Mobile Service Identity

AOYB : Which of the following information shall be specified by the muster list ?

A : details of the general emergency alarm signal consisting of seven or more short blasts, followed by one long blast.



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

APAO : After closing the drain during the blowing procedure for a glass water gauge, the water cock is opened and the water flows to the top of the glass. Then the steam cock is opened and the water flows down and out of the glass; Which of the following statements are correct?

A : The water level is between the water cock connection of the boiler, and the bottom of the gauge glass. It is safe to put feed water into the boiler.

APBL : You have been assigned to enter a hold and check the general cargo stowed in it, as part of an on-passage monitoring procedure. What must be in place before you can do that?

A : The necessary permits, based on valid atmospheric and other applicable tests.

APET : On a General Cargo vessel, to what Proof Load would a 16T SWL derrick be tested?

A : 20T

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A : 20T

APGH : What is the most important way to contain small oil-spills from cargo operations on the ship?

A : Have all scuppers plugged

APGN : Tank top in engine room has a high quantity of oil residues floating around. When discovered, what action should be taken?

A : Notify Ch.Eng., find cause of leakage, remedy the leakage and then immediately start cleaning of the tank top.

APHL : The purpose of a bilge well is to :

A : Collect water/cargo to be pumped out

APKM : What are the Bosun and 2nd Mate going to do?

A : They are going to weigh the anchor

APKN : Which one of the listed requirements regarding inflatable liferafts do not correspond to present regulations? The inflatable liferaft shall:

A : have at least two entrances

APKU : What is the safe time for operating the crankcase door when oil mist alarm is activated and the engine has been stopped?

A : After 20 minutes

APLT : You are starting to get low on water in the lifeboat. What should you do?

A : Collect rain water



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

APRH : SOLAS regulation requires that tankers of XXX ton dwt must be equipped with an emergency towing system?

A : - All vessels and on all voyages

APRH : SOLAS regulation requires that tankers of XXX ton dwt must be equipped with an emergency towing system?

A : 20 000 dwt

APST : A heat exchanger of the tube and shell type is used for cooling lubricating oil with seawater as the secondary fluid. Which of the options would indicate that the tube stack was becoming fouled (scaled or coked) rather than blocked?

A : A reduced temperature difference between the seawater inlet and outlet and also between the lubricating oil inlet and outlet.

AQAA : What should be clearly marked on cowl ventilators?

A : The Open and Closed positions with the last date of testing

AQAA : What should be clearly marked on the cowl ventilators of a General Cargo Vessel?

A : The Open and Closed positions with the last date of testing

AQAM : What quantity of reserve fuel is to be available for diesel driven fire pumps outside of the main machinery space? (SOLAS II-2/4.3.3.2.4)

A : Sufficient amount for fifteen hours operation at full capacity

AQBL : Signals are often used by aircraft engaged in search and rescue operations to direct ships towards a casualty. This aircraft flies across your stern, rocking his wings. What is the meaning of the signal?

A : The assistance of the vessel is no longer required

AQBN : The different layers in the ionosphere, important for radio propagation, are effected by:

A : the sun

AQBO : What will you bring in a lifeboat if the ship is abandoned?

A : Warm clothes, blankets and lifevests.

AQCA : What is the correct definition of: - a mooring line?

A : A thick rope to tie up the ship.

AQCC : Where several rescue units are engaged in a search and rescue operation, one of them should be designated as the On-Scene Commander (OSC). Which of the following describes how this appointment will be made in MERSAR?

A : - The first rescue unit to arrive at the scene will normally assume the role of OSC, until the unit appointed as OSC by the SAR Mission Coordinator at the applicable RCC is in a position to take control.



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

AQCC : Where several rescue units are engaged in a search and rescue operation, one of them should be designated as the On-Scene Commander (OSC). Which of the following describes how this appointment will be made in MERSAR?

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AQCC : Where several rescue units are engaged in a search and rescue operation, one of will be designated as the On-Scene Commander (OSC). Which of the following describes how this appointment will be made?

A : OSC to be designated by an appropriate RCC or RSC.

AQDR : An enclosed lifeboat is fitted with a self-contained air support system. With the engine running, what is the minimum period of time the air should remain safe and breathable?

A : 10 minutes

AQEO : Between a complete removal and a renewing of floor polish what can you do to maintain a PVC floor surface? Test of revision tool

A : By soft machine scrubbing with red pad and a renewing of polish only where there is heavy traffic (f.i. in the middle of corridors and not the whole floor).

AQEQ : A piston ring set for a trunk piston engine often includes a slotted ring tensioned by an internal spring. What is the purpose of this type of piston ring?

A : It is an oil scraper ring.

AQEQ : The majority of medium speed main propulsion installations incorporate a reduction gearbox between the engine and the propeller shaft. Why is this arrangement usually required?

A : So that the propeller operates in a relatively efficient speed range.

AQEY : What would be a typical set point for emergency shut down of a diesel engine due to "lubricating oil inlet to camshaft" low pressure?

A : 1,5 Bar

AQEY : What would be a typical set point for emergency shut down of a large slow speed diesel engine due to "lubricating oil inlet to camshaft" low pressure?

A : 1,5 Bar

AQHE : The terminal indicates to you that they are going to use a booster pump to assist the discharging operation. You start the discharge, and in a few minutes the pressure drops sharply. This could be a result of the :

A : booster pump coming on the line and discharging properly

AQJN : You are burning garbage containing plastics. What shall you do with the ashes from the vessels incinerator?

A : Discharge the ashes to a shore facility



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

AQLC : What is meant by the term "segregation"?

A : The planned, separated stowage of cargoes that may react dangerously with each other in the event of leakage or other damage.

AQSA : What kind of fire protection media is required when carrying Isopropylamine ?

A : Foam that is not a "alcohol resistant" type and water spray.

AQSC : What happens when a high density cargo is dropped into a cargo hold from a great height?

A : The tank top plating and double bottom internals can sustain damages

AQSC : Why should iron ore not be dropped from a great height into a cargo hold?

A : Because the tank top and double bottom internals can sustain damages

AQSC : Why should iron ore not be dropped from a great height into a cargo hold of a Bulk Carrier?

A : Because the tank top and double bottom internals can sustain damages

AQUB : What must be checked before loading cargo in tween decks of a General Cargo Vessel?

A : The maximum allowed loading must be checked before commencing operations to avoid possible damage

ARAF : How are the NAVTEX areas identified ?

A : Two lettres

ARAJ : The typical current gain of a common emitter transistor is

A : 10-200

ARCC : A bulk cargo vessel is found to be 4.0 centimetres over her maximum loadline draft after loading; what should be the actions of the master?

A : Order the pumping out of fresh water or ballast until the maximum allowed loadline is achieved.

ARGA : By FleetNET communications is understood:

A : an EGC-message destined for ships of a certain company

ARGG : What regulations apply to the rigging of gangways?

A : Means of Access Regs



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

ARIW : To conform with "best practise", can you drive a crane and stand-by for a colleague who has entered a cargo tank at the same time?

A : No.

ARJL : What is the main advantage of having a central cooling system fitted on board ship?

A : It requires less maintenance

ARMX : What makes OPA-90 different from other international oil legislation

A : All answers

ARNT : What is the correct name of the part highlighted in the sketch?

A : Exhaust valve

AROS : The boiler water tests show a high and increasing level of chlorides in the boiler water. What is the most likely cause of this problem?

A : Sea water leakage from the condenser.

ARQG : What do we mean with a IOPP certificate?

A : With IOPP certificate we mean International Oil Pollution Prevention certificate and the ship is classed to prevent oil pollution

ARSY : What would be the most probable cause of an increase in cooling water temperature for all cylinders of a diesel engine?

A : Jacket water cooler is clogged.

ARSY : What would be the most probable cause of an increase in cooling water temperature in all cylinders?

A : Jacket water cooler is clogged.

ARSY : What would be the most probable cause of an increase in cooling water temperature in all cylinders?

A : Jacket water cooler is clogged.

ARUM : You are on a vessel 10 nautical miles off the coast of Algeria, in the Mediterranean Sea. Are you allowed to dump food waste overboard?

A : No, food waste can not be dumped overboard

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A : No, food waste can not be dumped overboard



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

ASAF : On a RoRo vessel, how often should a dangerous goods stowage plan be produced

A : Every time you load a dangerous cargo

ASAF : What standing orders must be issued to engineers with regard to fuel oil tanks located below vehicle decks?

A : Never to heat fuel oil to more than what is specified for the vessel

ASFG : Who is responsible for issuing an ISPS certificate?

A : The Flag State

ASII : You have just been handed six sample bottles by the cargo surveyor, containing Nitric Acid drawn from a cargo just loaded on your ship. How will you move them to the sample locker, prior to storage?

A : I will place them into a proper container with a handle, such as a sample carrier or a strong bucket. When I move them, I will ensure that I am focused on this task alone.

ASNN : What is a Marine Evacuation System?

A : Evacuation Chute(s)/Slide(s) and Liferrafts

ASNT : A moderate level of stress provides which useful function in an emergency?

A : To prepare for peak performance that will improve the chances of survival

ASOQ : Checking the lubricating oil sump level of the generators is one of the engine watch ratings regular duties on a particular vessel. During the check it is noticed that the oil level is unexpectedly below the minimum mark on the dip stick. What action should be taken?

A : The rating should fill the sump to normal operating level and immediately inform the engineer on watch.

ASOQ : When checking the diesel engine jacket water header tanks as part of the routine watch checks the engine room watch rating finds the level is well below normal. After topping up the tank and checking around the engine a leak is found. What action should be taken?

A : Try and quickly stop the leak and then inform the engineer on watch of what has happened.

ASPG : Which one of the listed requirements regarding the launching and recovery arrangements for rescue boats corresponds to present SOLAS regulations?

A : Rapid recovery shall be possible with the boats full complement of persons and equipment.

ASQB : How many hand held distress flares are carried in each lifeboat?

A : 6

ASQC : Which of the following factors affect the separation process

A : Density, viscosity, flow rate, temperature, gravity disc diameter



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

ASQX : If you are going aloft in a bosuns chair what kind of hook would you use to hook the chair to the rope?

A : An approved hook with a locking device

ASRL : When is a General Cargo vessel deemed to be cargo worthy?

A : When the hatch covers and/or hatch pontoons are weather tight

ASRL : When is a vessel deemed to be cargo worthy?

A : When the hatch covers and/or hatch pontoons are weather tight

ASSA : How do we control the tank pressure when loading a gas carrier?

A : With cargo compressors, vapour return to shore and the loading rate.

ASSA : How is the cargo tank pressure controlled when loading an LNG carrier?

A : By using a vapour return to shore system and controlling the loading rate.

ASUJ : What is the purpose of an expansion valve in a refrigeration system circuit?

A : Regulating freon liquid flow to the evaporator.

ASUJ : What is the purpose of an expansion valve in a refrigeration system circuit?

A : To control the flow rate of liquid refrigerant to the evaporator

ASVH : What precaution must be taken when painting on deck during cargo operations?

A : Cargo hold fan inlets near paint areas must be closed

ASVH : What precaution must be taken when painting on deck during cargo operations on a General Cargo Vessel?

A : Cargo hold fan inlets near paint areas must be closed

ASXU : Which of the following is not systematically transmitted in a DSC all ship urgent call

A : position

ASYB : If a vessel is rolling heavily in a seaway and has negative GM and a small Angle of Loll, describe how the vessel will roll.

A : Roll unevenly flopping over between the Angle of Loll on each side.



ASYN : Polarisation of a radio wave means:

A : the direction of the electrical field

ATAP : What is characteristic of titanium, magnesium and lithium catching fire?

A : Due to chemical reactions these cargoes will continue to burn

ATAP : What is the Proper Shipping Name for: Caporit; CCH; Chloride of lime; Chlorinated lime; HTH; Lime chloride; or Calcium salt?

A : Calcium Hypochlorite

ATCS : You have received the nine digit MMSI of a ship on your DSC equipment. In which publication will you find the name of the ship?

A : The ITU List of Callsigns and Numerical Identities of Stations used by the Maritime Mobile and Maritime Mobile-Satellite Services

ATLV : Which among the following list is required for lifeboat equipment according to present regulations ?

A : be secured in a manner as not to interfere with abandonment procedures

ATLV : Which among the following list is required for lifeboat equipment according to present regulations?

A : be secured in a manner as not to interfere with abandonment procedures

ATLY : Which one of the listed requirements regarding life-jackets corresponds to present SOLAS regulations? A life-jacket shall be so constructed that:

A : It allows the wearer to jump from height of at least 4.5 m into the water without injury and without damaging the life-jacket.

ATUL : A bulk cargo is loaded and the cargo stow has been left with an excessive peak height; what could be the result of this situation?

A : Excessive stresses on tank top

ATVX : VHF communication is usually provided by :

A : ground wave

ATWC : What is the function of a sacrificial exchangeable wear plate?

A : It protects twistlocks against wear down beyond a certain limit

ATYY : What action should be taken if the inert gas plant fails during discharge of a liquefied gas cargo?

A : Stop all cargo operations and inform the terminal.



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

AUAY : In carbon dioxide fire-fighting systems for use in machinery spaces the fixed piping system shall be such that:

A : 85% of the gas can be discharged into the space within two minutes

AUBY : For how long should a waterborne fire protected lifeboat be capable of protecting its full complement when subjected to a continuous oil fire enveloping it ?

A : 8 minutes

AUDN : Which class of emission is used for MF radio telephony transmissions ?

A : J3E

AUIH : Which of the following foods contains the most calcium per 100 grams serving?

A : Milk and cheese

AUIJ : The responsibility for the use of the mariphone on board lies with the:

A : user of the installation

AUKW : Which publication sets out the various forces that cause cargoes to shift?

A : The Cargo Stowage and Security (CSS) Code

AUKW : Which shipboard publication sets out calculations for cargo lashings?

A : The Cargo Securing Manual

AUNF : How does the MAIB communicate their findings to an investigation?

A : By producing and making available anonymous reports of incidents and accidents

AUSG : Which of the following is the correct minimum carriage requirement for a ship of more than 300 gross tons and operating in area A:

A : 1 VHF RT + DSC+ DSC watch receiver - 1 or 2 SART - 1 NAVTEX and/or 1 EGC receiver and/or 1 HF NBDP watch receiver - 2 or 3 VHF portable - 1 EPIRB - 1 MF RT + DSC+ DSC watch receiver - 1 HF RT + DSC+ DSC watch receiver

AUSI : What is the approximately boiling point of LNG at atmospheric pressure?

A : Approximately -160 C.

AUYI : What is the name of the device used for continually checking ballast water as it is pumped overboard?

A : Oil Detection Monitoring Equipment.(ODME).



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

AUYI : What is the name of the device used for continually checking ballast water as it is pumped overboard from an oil tanker?

A : Oil Detection Monitoring Equipment.(ODME).

AUYI : What is the name of the device used for supervising all the ballast water to be pumped over board?

A : Oil Detection Monitoring Equipment.(ODME).

AVBU : What is the travelling speed of radioelectric waves?

A : the speed of light

AVCH : Before entering the purifier, the lubricating oil is heated in order to:

A : Lower the viscosity and improve purification.

AVDC : Pledge of secrecy applies:

A : only to certificate holders

AVED : Stainless steel tanks are sometimes required to be "passivated" especially after tank surface repairs have been carried out and aggressive cargoes are to be loaded. "Passivation" normally consists of:

A : Applying 12 - 15% nitric acid on tank surfaces, either with a brush or spray

AVFY : Where shall manually operated call points in fixed fire-detection and alarm systems be located in accommodation spaces? (SOLAS II-2/13.2.1)

A : At exits and in corridors

AVGT : Which of the following statements does not apply to fire doors in main vertical zone bulkheads and stairway enclosures in passenger ships?

A : They can have hold back hooks not subject to control station release providing the emergency plan details a person to close them.

AVGU : A person wearing an anti-exposure suit shall be able to:

A : jump from a height of not less than 4.5m into the water without damaging the suit or being injured

AVHN : What is contained on the front page of the ships register

A : Ship's name, Official number, Length, breadth and draft, type of vessel, type and size of engine, name and address of the registered owner

AVJQ : What is the purpose of the purge gas condenser fitted to some liquefied gas carrier reliquefaction plants?

A : It is used to condense out any cargo vapours which have passed through the main condenser with incondensable gases.



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

AVKC : When a container is damaged en route, who should be asked to attend on board at the next port?

A : A surveyor representing the vessel's P. & I. Club

AVKC : With regard to the Cargo Stowage and Security (CSS) Code, what are the parameters used to calculate the forces that cause cargoes to shift?

A : The cargo stowage position and the vessel's speed, length and stability characteristics

AVOC : The engine turns over normally when starting air is supplied but does not fire even though normal starting rpm is achieved. What could be the probable cause to this?

A : Air in the fuel oil system.

AVPP : An air compressor is being refitted in the engine room. The compressor and motor are coupled using a flexible coupling and are mounted on a common skid which fixed to the deck with resilient mountings. Which of the statements, from the options given, relating to the alignment of the motor and compressor is true?

A : Shims should be fitted between the motor and compressor feet and the skid to ensure

AVQI : What is the purpose of a 'strum box'?

A : To prevent solids of certain size from entering the bilge system

AVQI : What is the purpose of a "Strum Box" on a General Cargo Vessel?

A : To prevent solids of certain size from entering the bilge system

AVSJ : What is the purpose of the deck water seal?

A : To prevent combustion gases to flow back and enter the burner.

AVSJ : What is the purpose of the deck water seal on the deck of an oil tanker?

A : To prevent combustion gases to flow back and enter the burner.

AVUA : You are close to the entrance to a port in thick fog. You hear the following signal. What does it mean?

A : That there is a vessel at anchor in the vicinity. She is less than 100 metres in length.

AVUL : What will alarm cargo receivers to the possibility of cargo damage?

A : The presence of hatch cover sealing tapes

AVUL : What will alarm cargo receivers to the possibility of cargo damage on a Bulk Carrier?

A : The presence of hatch cover sealing tapes



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

AVXJ : What does a "High viscosity substance" for Cat A & B products mean ?

A : A substance with a viscosity equal to or greater than 25 mPa.s at the unloading temperature.

AWAO : Why do many engine makers recommend to grind the valve spindle sealing surface with a half degree difference to the valve seat?

A : To improve the sealing surface between valve and seat during operation of the engine (compensate for the bending of the valve disc caused by combustion pressure).

AWAW : Which of the following dinner dishes is it least appropriate to serve in tropical waters?

A : Salted meat and ham, potato dumplings, mashed swedes, boiled potatoes.

AWAW : Which of the following dinner dishes is least appropriate to serve in tropical waters?

A : Salted meat and ham, potato dumplings, mashed swedes, boiled potatoes.

AWCE : What does this signal hoist mean?

A : I require immediate assistance.

AWDL : What is the requirement regarding number of slop tanks on oil tankers of 70,000 tons and above delivered after 31 December 1979?

A : Shall be provided with at least 2 slop tanks.

AWJN : Every passenger ship is required to carry:

A : A fast rescue boat capable of being launched when ship is still making headway

AWMI : What may be the reason to an unsatisfactory separation result for a fuel oil separator of ALCAP type?

A : Throughput too high.

AWNQ : The ring expander for removal and refitting of an air compressors piston rings is found to be broken and unusable. The work cannot be delayed until a replacement is obtained. Which of the methods given in the options should the ships engineers use to complete the work?

A : Fabricate a conical guide from tin plate or similar with the large diameter just bigger than the compressor piston so the rings can be eased open for fitting.

AWPR : What effect does an increased oil feed flow rate have on the performance of a centrifuge operating as a purifier?

A : Broken water seal.

AWPR : What effect does an increased oil feed flow rate have on the performance of a centrifuge operating as a purifier?

A : Separating efficiency is reduced



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

AWRG : Who is responsible for maintaining the vessels structural strenght?

A : The Master

AWTD : Cross-flooding fittings shall be operable from:

A : Above the bulkhead deck

AWUU : For which duties are gear and screw pumps normally employed?

A : Any of the mentioned alternatives.

AWWH :What are the duties of an effective bridge look out?

A : He is looking for navigational dangers.

AWWW :What is the punishment for any shipmaster who in distress or other danger abandons the ship without this being necessary?

A : Shall be liable to imprisonment for a term not exceeding one year.

AWXG : Why is it necessary to have routine testing of diesel engine cooling water systems?

A : To ensure that the proper residuals of treatment chemicals, as specified, are maintained all time.

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AWXG : Why is it necessary to have routine testing of the cooling water?

A : To ensure that the proper residuals of treatment chemicals, as specified, are maintained all time.

AWYW :When lashing -people from ashore is engaged, who has the formal responsibility for the lashing of cargo?

A : The Master?

AXEV : The receiver of the Inmarsat-C installation, if the log-in procedure has been carried out, is turned on:

A : NCS common channel



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

AXHH : What is the function of an OSC (OPA-
9 0)

A : On the Scene Co-ordinator

AXHO : On a RoRo vessel, to what should a heavy vehicle be secured on a car deck?

A : Clover leaves

AXHO : To what should a heavy vehicle be secured on a car deck?

A : Clover leaves

AXRH : When carrying out piston overhaul, it is important to clean the ring grooves properly. Why?

A : To make sure gas pressure can enter freely on top of and behind the piston ring

AXSB : During a double banking operation the off-take or smaller vessel generally provides the moorings. If wires are used it is recommended that ropetails are fitted onto the ends of the wires. This is to:

A : All the listed alternatives

AXST : Fast rescue boats shall be capable of carrying:

A : At least 5 seated persons and a person lying down

AXTU : Fluctuation of high temperatures in a boiler furnace can lead to refractory lining failure in which the surface of the firebrick breaks away in layers. What is the term used to describe this type of failure?

A : Slagging.

AXTU : Fluctuation of high temperatures in a boiler furnace can lead to refractory lining failure in which the surface of the firebrick breaks away in layers. What is the term used to describe this type of failure.for this?

A : Slagging.

AXTU : Fluctuation of high temperatures under flame impingement, makes the surface of the firebrick breaking away in layers. What is the correct engineer term for this ?

A : Slagging.

AXUP : Where on board ozone depleting substances are found?

A : In refrigerated systems

AXVM : Do we have full side ballast tanks on all gas carriers?

A : Only when the design temperature is below -55oC and the tank is not independent type C , we must have full side ballast tanks



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

AXYU : On the figure there are four (4) possible definitions of the term "AIR DRAUGHT" given. Which one is the correct one?

A : Air draught is given by C on the figure

AYHH : The INMARSAT C Mobile Earth Station Identification Number (IMN) consists of:

A : nine digits, beginning by 4

AYLM : When a fire breaks out in the engine room, who is in charge of the fire fighting operations?

A : The Chief Engineer

AYMX : Select, from the options given, the one that best describes a requirement of the remotely controlled valves fitted in the ESD (Emergency Shut-Down) systems on an LNG carrier?

A : They must be fail-safe.

AYMX : What is the requirement to valves in the ESD (Emergency shut-down) system?

A : They must be fail-safe.

AYOU : What is the emergency frequency on M.F. (Medium frequency) radio?

A : 2182 Hz

AYQI : Low temperature corrosion can occur in both oil fired and exhaust/waste heat recovery boilers. Considering a fuel with same sulphur content, the air/fuel number, λ , in a combustion process also indicates a relation to what temperature sulphuric acid condensates. What is the correct relation between air/fuel ratio and low temperature corrosion?

A : High air/fuel ratio rises the condensation temperature, and thereby reducing the safe limits between normal operation and condensation temperature.

AYRG : Must passenger ship carry a rescue boat onboard?

A : Yes, one if the ship is under 500 brt. And two if the ship is over 500 brt.

BABO : Your vessel is going to take bunkers, and you are in charge of the preparations before bunkering starts. Which of the following do you consider as the most important item before bunkering starts?

A : Tell the deck officer to hoist the red flag. (letter " B ") day signal, or red signal light in the signal mast during night time

BABS : Which one of the following items has to be included in an abandon ship drill?

A : Checking that life-jackets are correctly donned

BACN : You are part of a team of two First Aiders in a resuscitation situation. What is the rhythm of resuscitation with two First Aiders?

A : 5 compressions after every 1 inflation



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

BADL : Welding and use of open flames on board tankers in operation are subject to regulation laid down by the Norwegian Maritime Directorate (Norwegian Ship Control Legislation - NSCL). Which of the listed requirements regarding washing and gas freeing before hot work in cargo tanks corresponds to these regulations? (NSCL 22/1294/6).

A : In case of major work the fire main shall be under pressure.

BAEB : What is meant by "Load On Top"?

A : Loading cargo "on top" of the oil and cargo residues in the sloptanks

BAEY : The mode F1B is used:

A : in radiotelex-traffic in the MF/HF bands between ship and shore stations

BAFT : Which of the aggregate states have fixed volume, but not any fixed form.

A : Fluids (liquids).

BAIE : Which item among those below is included in the normal equipment of every rescue boat ?

A : one buoyant line, not less than 50m in length, of sufficient strength to tow a liferaft

BAIF : Which item among those below is included in the normal equipment of every lifeboat ?

A : one set of fishing tackle

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A : one set of fishing tackle

BAIG : Which ships shall be provided with international shore connection for supply of water as extinguishing media? (SOLAS II-2/19.1)

A : All ships of 500 tons gross and upwards

BAIH : On the figure there are four (4) possible definitions of the term "QUAY" given. Which one is the correct one?

A : Quay is given by A on the figure



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

BAMD : How many rescue boats should be provided on passenger ships of 500 gross tons and above?

A : Two, one on each side of the ship

BANY : The emergency battery of a GMDDS portophone:

A : must be replaced before the expiry date is exceeded

BAOL : In which of the following areas of the holds of a bulk carrier is cargo residue unlikely to be concealed?

A : Bulkhead corrugations

BAOL : In which of these areas is cargo residue not concealed?

A : Bulkhead corrugations

BAOP : Are membrane tanks designed for carrying of gas of ambient temperature?

A : No, membrane tanks are normally designed for transport of fully refrigerated cargoes.

BAOP : Liquefied gas cargo carriage conditions vary depending on the cargo containment system being used. What would normally be the cargo carriage condition for liquefied gas cargoes carried in membrane type tanks?

A : Fully refrigerated and approximately atmospheric pressure.

BAPV : On area A1 the function "Transmission and reception of signals for locating" is mainly based on:

A : the use of SART transponders

BAQT : What is the function of the form "Declaration" or similar in connection with supervision carried out pursuant to the Regulations of 25 November 1988 concerning supervision of maritime service?

A : To confirm to public supervisory authority that the requirements for the seafarer's service on board have been checked, are satisfied and that the compliance with the requirements has been duly documented.

BAUN : What method should be used to discharge a semi-pressurised gas carrier if there is a break down on the cargo discharge pump?

A : Semi-refrigerated gas carrier can be discharged by pressurising the cargo tanks or condensate the cargo to shore or another cargo tank or boil of the cargo

BAUP : Which of the following cargoes can solidify?

A : Latex

BAWI : What will a cadet find in the maintenance manual?

A : He will find a lubricating chart in the maintenance manual



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

BAXC : At what temperature is it recommended that frozen fish is stored?

A : -20 degrees Celsius.

BBAU : The crane on a General Cargo Ship is designed for Grab Service with a hoisting load of 16 tonnes including grab weight. Grab weight: 8 tons, Grab cubic: 10 m³. You are going to discharge a cargo of dry minerals having a stowage factor of between 0.7 - 0,8 t/m³. What will be the maximum weight of the cargo you are allowed to have in each grab?

A : 8 tons.

BBCC : Which item among those below is included in the normal equipment of every lifeboat ?

A : a jack-knife attached by a lanyard

BBDF : Give the meaning of the following symbol

A : Release gripes

BBHF : What does a flame screen do ?

A : Permits the passage of vapor but not of flame

BBJX : What is the minimum number of independently driven fire pumps that must be provided on passenger ships of 4000 tons gross tonnage and upwards?

A : 3

BBRJ : What is the maximum allowable tank design pressure in the vapour space on Type "A" cargo tanks for LNG carriers?

A : 0.7 barg.

BBRJ : What is the maximum allowable tank design pressure in the vapour space on Type "A" tanks?

A : 0.7 barg.

BBTO : A number of substances are carried as cargoes on liquefied gas carriers. Of those given in the options, which is the most reactive, and therefore least compatible, with other liquefied gas cargoes?

A : Chlorine

BBTS : Which plan shows the position of the vertical and longitudinal centres of gravity for each cargo compartment on a Bulk Carrier?

A : Vessel stability book

BBVQ : Give the meaning of the following symbol

A : A class fire door self closing



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

BCAR : During COW what actions are required if delivered inert gas exceeds 8 per cent by volume?

A : Stop operation?

BCBD : On a Container vessel, under the IMDG code what class is assigned to a Fumigated Container?

A : Class 9

BCBD : Under the IMDG code what class is assigned to a Fumigated Container?

A : Class 9

BCCE : How can you keep a ship head up into the weather, with the rudder jammed in hard over position?

A : Careful ahead manoeuvring

BCCE : How can you keep a ship head up into the weather, with the rudder jammed in hard over position?

A : - A rudder with part of the rudder area forward of the turning axis, therefore reducing the load on the steering motor.

BCET : The boiler gauge glasses should be blown down

A : At the beginning of every watch

BCKQ : What routine would be required before moving a heavy box in the engine room

A : Carry out a risk assessment, make use of available equipment, and instruct staff on lifting techniques

BCLO : What is the meaning of isomer compounds?

A : Isomer compounds is substances with same chemical formula but different characteristic

BCLW : In the event of a diesel engine crankcase explosion which of the safety devices fitted to the engine is designed to minimise the risk of a secondary explosion?

A : Crankcase relief valves/doors

BCMJ : What measures regarding ship stability should be taken in order to make passenger ships able to withstand critical damage?

A : Maintain sufficient intact stability

BCQL : What type of lashing arrangement are needed on weather deck for securing one container high?

A : Twistlocks?



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

BCQL : What type of lashing arrangement is needed on weather deck for securing one container high?

A : Twistlocks?

BCTN : What should not be given to a patient who has diarrhoea?

A : Milk

BCVP : For how long shall a ships log-book be kept on board?

A : For at least three years

BCWJ : On a Container vessel, what is the function of double stacking cones?

A : To link adjacent container stacks together particularly those in line with buttresses

BCWJ : What is the function of double stacking cones?

A : To link adjacent container stacks together

BCXU : Which of the four calculations below is correct set up, if you want to find observed latitude when the sun is on the meridian?

A : Calculation 3 is correct.

BCXU : Which of the four calculations below is the correct set up, if you want to find observed latitude when the sun is on the meridian?

A : Calculation 3 is correct.

BCXU : Which of the four calculations illustrated is the correct one to determine the latitude of the observer when the sun is on the meridian?

A : Calculation 3 is correct.

BDIN : On a RoRo vessel, which of the following can cause an unplanned list at sea?

A : Ballast water exchange

BDIN : Which of the following can cause an unprecedented list at sea?

A : Ballast water exchange

BDJB : From the options given select the one which best completes the following statement. "The preferred method of handling pallets of fruit in the tween deck of a conventional reefer vessel would be"...

A : ...using a battery powered fork lift truck.



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

BDNB : What does the Captain want to have done?

A : He wants the Chief Officer to organise a lifeboat drill

BDPJ : The starting air valve is fitted for the purpose of:

A : Bringing the engine up to sufficient number of revolutions for combustion to take place and engine to run.

BDRD : Who are required to have participated in emergency preparedness training on a NIS cargo ship?

A : All members of the crew

BDRI : Your vessel is to turn in a narrow canal by use of one tug (turn to port with the bow). In which position and how would you use the tug? (Vessels engine will also be used).

A : Make the tug fast on port shoulder to pull

BDRI : Your vessel is to turn in a narrow canal by use of one tug (turn to port with the bow). In which position and how would you use the tug? (Vessels engine will also be used).

A : - The position of the tug relative to the ship's pivot point

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A : - The position of the tug relative to the ship's pivot point

BDXV : What period of validity does an additional qualification e.g. Dangerous Cargo Endorsement have?

A : Same as certificate to which it applies

BDYM : What is not relevant to the fumigation of bulk cargoes?

A : Logging details of the hatch cover system

BDYM : What should be logged when fumigating a bulk cargo?

A : All

BEJI : On the galley stove, a pan containing oil catches fire, which of the following should NOT be used on this type of fire?

A : Use a water extinguisher to put out the fire



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

BEJM : On a Chemical Tanker having 2 foam tanks for deck monitor use the foam quality has been found to have deteriorated. A new supply of foam is ordered. Your usual chandler does not have the required quantity of foam in one type and offers 2 types of foam instead, one for each tank. You would:

A : Reject the offer?

BELE : How many or which one of the cargo pumps are required to give bleed off for crude oil washing? (the vessel is not fitted with own crude oil washing pump).

A : Bleed off may be taken from any of the cargo pumps.

BEOP : When you join a new ship, how are you informed about safety rules, alarm instructions and your own duties in case of an emergency?

A : By muster lists exhibited in conspicuous places

BEPR : What facility exists under the ISM Code for individual control measures of specific work-related tasks?

A : The Permit to Work system.

BEPR : What facility exists under the ISM Code for the provision of individual control measures for specific work-related tasks?

A : The Permit to Work system.

BETP : Basic manual dew point measurement devices are commonly used by surveyors when monitoring the dryness of a cargo tank prior to loading a liquid chemical product. Which of the descriptions below is a summary of how the measurement is carried out?

A : A small quantity of Acetone is placed into the device and dry-ice is progressively added to it to steadily reduce the temperature. A sample of the atmosphere in the tank is continuously drawn through the device, passing over the polished or mirrored surface of the container. When the first drop of moisture (dew) is observed to form on the polished surface, the temperature of the Acetone bath is noted. Reference may be required to tables to correct the reading for desired parameters

BETP : Basic manual dew point measurement devices are commonly used by surveyors when monitoring the dryness of a cargo tank prior to loading. Which of the descriptions below is a summary of how the measurement is carried out?

A : A small quantity of Acetone is placed into the device and dry-ice is progressively added to it to steadily reduce the temperature. A sample of the atmosphere in the tank is continuously drawn through the device, passing over the polished or mirrored surface of the container. When the first drop of moisture (dew) is observed to form on the polished surface, the temperature of the Acetone bath is noted. Reference may be required to tables to correct the reading for desired parameters.

BEXX : Your vessel has been involved in a collision with another vessel. As Master responsible for the ship and persons on board, what is the first step to take?

A : - Organise someone to assess the extent of damage and the residual J stability of the vessel. ___

BEXX : Your vessel has been involved in a collision with another vessel. As Master responsible for the ship and persons on board, what is the first step to take?

A : Send a distress message and collect survival suits / thermal bags.

BFBF : Give the meaning of the following symbol

A : Rocket parachute flares

BFCW : The whip-antenna of the MF transceiver was lost in bad weather. The MF-transceiver can be used again:

A : if the whip-antenna is replaced by an antenna of about the same length as the original one



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

BFDT : You are Sen.Off.Deck on a laden tanker which has collided with a smaller vessel. What should your first action be?

A : - Inform the local coast radio station of the incident and submit your _^name as a witness._____

BFDT : You are Sen.Off.Deck on a laden tanker which has collided with a smaller vessel. What should your first action be?

A : Identify the extent of damage to own vessel and take necessary steps to safeguard the complement and the vessel.

BFEN : Which is the "TUG TOWING LINE", in the figure ?

A : Tug towing line is given by D on the figure

BFGH : Why is it necessary to have an effective ballast water management plan which includes provision for changing out ballast in open water rather than discharging ballast in coastal waters?

A : To avoid the introduction of non-indigenous species of marine life from one area to another.

BFGX : Which of the following parameters may result in oscillation?

A : Too high amplification

BFGX : Which of the following parameters will result in oscillation

A : Too high amplification

BFGY : What does the Chief Officer want the 1st Engineer to do?

A : The Chief Officer wants the First Engineer to empty the starboard bilge in No. 5 hold

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BFGY : What does the Chief Officer want the First Engineer to do?

A : The Chief Officer wants the First Engineer to empty the starboard bilge in No. 5 hold

BFHQ : How will the ship behave if you have a "black out" in the situation illustrated?

A : She will turn to port and the speed will drop gradually



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

BFHQ : How will the ship behave if you have a "black out" in the situation sketched below?

A : She will turn to port and the speed will drop gradually

BFHW : Following complete shut down of the steam plant, the boiler has been heated in accordance with the correct starting up procedure, and the steam pressure is rising. What is the correct procedure to be adopted when opening the main steam valve to the range?

A : That the combustion chamber of the boiler is checked being empty for oil and that the pre ventilation function prior to ignition is functioning.

BFJK : Why are clean and tidy surroundings important especially on board a vessel?

A : By soft machine scrubbing with red pad and a renewing of polish only where there is heavy traffic (f.i. in the middle of corridors and not the whole floor).

BFJN : A person wearing an anti-exposure suit shall be able to:

A : don a lifejacket without assistance

BFJR : Breathing apparatuses is an important piece of equipment for being able to fight a fire onboard a vessel. What routine precautions to be observed with regard to use and maintenance of such equipment?

A : All the mentioned alternatives.

BFJL : When tankcleaning after discharging a cargo of polymerising products (such as styrene monomer), you would, in order to avoid deposits of polymerised material:

A : Pre-wash the tanks with cold water first?

BFKF : Which of the following cargoes can explode?

A : Ammonium nitrate?

BFMQ : Why are handrails in ro-ro decks painted?

A : To prevent contact with vehicles

BFNO : Which item among those below is included in the normal equipment of every liferaft ?

A : an efficient radar reflector (or radar transponder)

BFQW : By FleetNET communication is understood:

A : an EGC-message destined for ships with the same group call number

BFSL : All waste receptacles shall be of non-combustible materials, built and equipped with:

A : No openings in sides and bottom



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

BFTH : What is the minimum capacity of a ventilation system protecting cargo spaces, other than special category spaces, intended for carriage of motor vehicles with fuel in their tanks for their own propulsion in a ship carrying no more than 36 passengers or in a cargo ship?

A : 6 air changes per hour

BFTI : Which statement is true?

A : To minimize the scale formation, the Sea Water outlet temperature should never exceed 50 C

BFUP : What would be a correct form of response to the question: What is the weather in your position?

A : The correct form of response would be to give the wind force and direction, the range of visibility and the sea state.

BFXK : What are the required data inputs into most gyro compasses to reduce any possible compass error?

A : Latitude and Speed

BGAD : Which one of the listed routine test and inspections of life-saving appliances is not required by the regulations?

A : General emergency alarm to be tested daily

BGAF : You are starting to get low on water in the lifeboat. What should you do?

A : Collect rain water

BGBB : Among working conditions listed below which one is required for every propulsion engine of lifeboats?

A : Fuel with a flash point of 44°C or more

BGDM : What kind of problems have they had?

A : They have had problems securing the gangway

BGFC : Training manuals for Life Saving Appliances and Fire Fighting systems and equipment shall be provided in crew mess room, recreation room or in each crew cabin. The training manuals shall explain the following in detail:

A : Emergency procedures including alarm signals, general instructions and safety practice onboard, specific information on equipment, operation of equipment

BGGV : During RoRo cargo operations, what must be monitored at all times where the ramps are concerned to prevent damage to the cargo

A : The angle of the loading ramp is not too steep and that the ramp has not lifted off the jetty

BGGV : What is a Slant Rule used for?

A : To measure the main ramp angle



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

BGJK : During operation of the main engine, the heat absorbed by lubricating oil is removed by the:

A : Lube oil cooler

BGJW : Discharge of a frozen cargo is about to start from a conventional reefer vessel. Select, from the options given, the best procedure to follow to ensure good cargo care.

A : The fans should be stopped just before the hatch lids are raised for opening.

BGNJ : The continuity resistance of a 100m long X 25 sq. mm cable is to be checked. Which of the following results would you anticipate?

A : 185 milli ohm

BGNJ : The continuity resistance of a 100m long X 25 sq. mm cable (rated at 100A) is to be checked. Which of the following results would you anticipate?

A : between 0.1 and 1.0 ohm

BGVF : Metal particles are found on the magnetic element of the main turbine lubricating oil filter. Which of the options is the most likely source of these particles?

A : Damaged reduction gearing.

BGWU : Ethylene is normally carried on fully refrigerated liquefied gas carriers at its atmospheric boiling point. What is the approximate atmospheric boiling point of ethylene?

A : Minus 104 degrees C

BGYO : A conventional reefer vessel fitted with derricks has four large diameter Yokohama fenders supplied by the charterer. What kind of cargo operation from those given in the options is the vessel most likely being chartered for?

A : Transhipment in the open sea directly from fishing boats.

BHCG : The IMO Gas Codes require that all liquefied gas carrier cargo tanks are fitted with pressure relief valves. Pilot operated relief valves are frequently used, particularly with refrigerated cargoes. What is the main advantage of using pilot operated relief valves rather than simple spring loaded types for refrigerated liquefied gas cargoes tanks?

A : They ensure accurate operation at the very low cargo carriage pressures.

BHFX : Give the meaning of the following symbol:

A : rescue boat

BHHQ : Which type of profiling is used to obtain information about rival companies and their employees?

A : Industrial

BHIJ : A coated tank holds 400 tons of sea water when filled. How many tons of liquid of liter weight 0.9300 will it hold when filled to 90% capacity?

A : 326.6 Mt



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

BHPI : A deep tank on a General Cargo ship has been cleaned after discharge of palm oil; what needs to be done to prepare the space for dry cargo?

A : Heating coils removed, bilge suctions and CO2 lines opened and tested

BHSE : What is digital signal?

A : A signal representing 0 = "low" and 1 = "High"

BHTC : The variation in strength of the received signal is called:

A : fading

BHTY : To get the best possible efficiency from refrigerator evaporators, the superheat should be regulated to?

A : 5 - 10 Degr. C.

BHUW : What is the necessary protection when you are rust chipping with air tools?

A : Protecting cloths, safety shoes, gloves, goggles, earmuffs.

BHWN : What is false regarding the function : "Transmission of ship to shore distress alerts"

A : On area A1 this function is based on the use of SART transponders

BIBD : Under international regulations where should draught observations be recorded?

A : In the cargo log book

BIDO : Does OPA90 apply to vessels engaged in carrying liquefied gas?

A : OPA90 apply to all ships.

BIDO : Does the Oil Pollution Act, 1990 (OPA90) apply to vessels engaged in carrying liquefied gas?

A : Yes, OPA90 applies to all ships.

BIDO : Does the Oil Pollution Act, 1990 (OPA90) apply to vessels engaged in carrying liquefied natural gas (LNG)?

A : Yes, OPA90 applies to all ships.

BIIB : You have just completed tank inspection, prior to loading a number of chemical grades. The Duty Officer instructs you to secure the tank lids. (On this vessel, they are circular in design, with four dogs and the lid is raised and lowered on a geared wheel). Which of the following methods will you use to secure the lids?

A : I will lower the lid with the geared wheel, ensuring that the coaming rim sits centrally against the packing. I will then position and tighten the dogs, working back and forth so that an even



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

BIIE : What name is given to an appetizer, served before a meal, usually being small, attractive, savoury snacks, designed to stimulate the appetite?

A : Hors d'oeuvre.

BIND : At what number of crew members is it mandatory to have an Protection and Environment Committee on board?

A : Minimum eight crew members.

BIND : At what number of crew members is it mandatory to have an Working Environment Committee on board?

A : Minimum eight crew members.

BINY : Which among the following list is required for lifeboat equipment according to present regulations ?

A : be secured in the lifeboat (except boat-hooks) by lashings, storage in lockers, compartments, brackets or similar arrangement

BIOW : Temperature sensors may be marked Pt 100. What does it mean?

A : 100 ohm at 0° C

BIOW : Temperature sensors may be marked PT100. What does this mean?

A : 100 ohm at 0° C

BIOY : How should the initial draught survey report form be signed?

A : Between the two columns for the initial and final draught surveys remarked 'for initial draught survey only

BIPR : On a UMS classed vessel the high pressure fuel pipes are covered with steel flexible shrouds with drainage. What is the main purpose of the protection ?

A : In case of bursting pipe, to avoid oil spray hitting adjacent high heat surfaces of exhaust pipes etc.

BIPR : On a UMS classed vessel the high pressure fuel pipes have steel shrouds or use double walled pipes. Both are fitted with drainage. What is the main purpose of the protection ?

A : In case of bursting pipe, to avoid oil spray hitting adjacent high heat surfaces of exhaust pipes etc.

BITS : How should steel coils be stowed?

A : With their cores aligned fore and aft

BITS : On a General Cargo vessel, how should steel coils be stowed?

A : With their cores aligned fore and aft



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

BIUQ : Define the class of emission J3E :

A : Radiotelephony - Single sideband suppressed carrier

BIWP : Give the meaning of this symbol:

A : lifebuoy

BIYB : LPG and other liquefied gases are often transported by sea on fully refrigerated gas carriers. What is the generally accepted definition of a fully refrigerated gas carrier?

A : That the MARVS is less than 0,7 bar

BJGR : What contributes to wear-down of twistlocks?

A : The continuous action of longitudinal forces

BJGR : What contributes to wear-down of twistlocks on a container vessel?

A : The continuous action of longitudinal forces

BJGR : What diminishes the proper functioning of twistlocks?

A : Continued action of longitudinal forces

BJJW : Are all pumps and blowers shut down during the shut-down procedure?

A : No, the sea water pumps are still running

BJKR : It is important that a compress is done correctly. One of the alternative signs , after completed compress bandage, shows that the bandage may be too tight. Which one?

A : Swelling below the bandage and heavy pain

BJKR : It is important that a compress is done correctly. One of the alternative signs , after completed compress bandage, shows that the bandage may be too tight. Which one?

A : Swelling below the bandage and heavy pain.

BJMF : Which one of the listed requirements regarding rigid liferafts do not correspond to present regulations? The liferaft shall have:

A : all entrances fitted with rigid boarding ramps for boarding the liferaft at sea

BJMY : A viscosity controller for the main diesel engine fuel oil supply is giving poor control resulting in the viscosity of the fuel oil being too low at the engine. Which of the defects given in the options is likely to be the cause of this problem?

A : Capillary tube in the viscometer is blocked giving high differential pressure at the DP cell.



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

BJPV : What other purposes may a fixed fire-detection and alarm system be used for, in addition to fire indication? (SOLAS II-2/13.1.14)

A : Controlled closing of fire doors

BJQD : What is cargo sweat?

A : Condensation of moisture directly onto the cargo

BJQD : What is known as "cargo sweat" on a Bulk Carrier?

A : Condensation of moisture directly onto the cargo

BJRE : Which one of the given requirements regarding manning and supervision of survival craft corresponds to the SOLAS regulation?

A : A deck officer or certificated person shall be placed in charge of each survival craft to be used.

BJWL : What nominal filling restriction exists under the IBC Code for a single tank on a type 3 chemical tanker? (Not counting actual capacity or structural and cargo specific limitations).

A : There is no filling restriction for a type 3 chemical tanker.

BJWL : What nominal filling restriction exists under the IBC Code for a single tank on a type 3 chemical tanker? (Not counting structural, capacity or cargo specific limitations).

A : There is no filling restriction for a type 3 chemical tanker.

BJXI : Who is responsible for the development of the Ship Security Plan?

A : The Company Security Officer

BJXR : What are some of the most important tasks to carry out on a bulk carrier, before commencing hatch cleaning operations?

A : Risk Assessment, Permit to work /enter and tool-box talk

BKAW : The bottom end bolts for a high speed diesel engine are checked to see if they are fit for service by measuring the free length against a standard length. During overhaul the check reveals that one out of a pair of bolts has exceeded the recommended elongation limit. From the options given select the most appropriate action to be taken.

A : Replace the pair of bolts with new spares.

BKAW : The bottom end bolts for a high speed diesel engine are checked to see if they are fit for service by measuring the free length against a standard length. During overhaul the check reveals that one out of a pair of bolts has exceeded the recommended elongation limit. From the options given select the most appropriate action to be taken.

A : Replace the pair of bolts with new spares.

BKDT : How should cargo hold ventilation be carried out on a Ro-Ro vessel loading or discharging cargoes?

A : With the ventilation fans set to 'exhaust



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

BKFL : Passenger ships have a normal requirement of 1 lifejacket per person + 10% for children. In addition to this, how many lifejackets have to be stowed in conspicuous places on deck or at the muster stations?

A : 5% extra

BKGJ : On what design temperature do we need full secondary barrier

A : When the design temperature is below -55°C and the tank is not independent type B or C, we must have full secondary barrier

BKGG : In general, which of the following is the maximum length of a main vertical zone?

A : 40 meters

BKMM : Some 4-stroke engines are fitted with a rotorcap on the cylinder head valves. For what reason?

A : Improve the scaling surface function, increase the service time of the exhaust valve in the engine.

BKKX : What does MARVS mean?

A : Maximum Allowed Relief Valve Setting.

BKNU : Onboard the following message is received on the DSC controller: DOO: 245329000 CH16 ; Sdistress ack 244123000 What station sent the distress acknowledgement?

A : 245329000

BKQG : What is the purpose of watertight doors?

A : They will be closed if the ship get a damage on the ships hull, and taking in water. It will prevent the water to fill the whole deck. In case of fire they can also be used to stop the fire and smoke from diverge.

BKQS : Which of the methods given in the options should be used as part of the check of the accuracy of a liquid filled thermometer used in the cold rooms of the ships provisions stores?

A : Immerse the thermometer in a mixture of distilled water and ice made from distilled water to check the zero reading.

BKTW : In safety terms, what is an "interlock"

A : A device which prevents an operation of equipment to take place, to allow access or maintenance to be carried out

BKWH : Substances, materials and articles shall be stowed as indicated in the Dangerous Goods List of the IMDG Code, in accordance with a series of stowage categories. How are those categories designated?

A : 5 categories, labelled A-E.

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A : 5 categories, labelled A-E.



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

BLAK : Many LPG carriers are designed to carry the cargo in a fully refrigerated condition. What is the normal maximum cargo tank pressure on a fully refrigerated LPG carrier?

A : Maximum cargo tank pressure on an fully refrigerated gas carrier can be 0,7 bar

BLAR : What is the emergency channel on VHF?

A : Channel 16

BLBF : Which of the following is not a principle of heat transfer utilised in a boiler?

A : Forced convection.

BLBF : Which of the following is not a principle of heat transfer utilised in a boiler?

A : Ionisation.

BLBF : Which of the following is not a principle of heat transfer utilised in an oil fired steam boiler?

A : Ionisation.

BLBF : Which of the following is not a principle of heat transfer utilised in an oil fired steam boiler?

A : Forced convection.

BLCD : Which international code are regulating what safety equipment a passenger ship must have onboard?

A : SOLAS

BLDC : Give the meaning of the following symbol

A : Radar transponder

BLDD : When connecting a shore cargo hose to a ships manifold (header), how should the connection be made?

A : With a bolt in every hole in the flange, securely and evenly tightened.

BLDD : You are alongside to load a cargo of Triethylamine. It will be supplied from shore using an 8-inch flexible hose. When securing this to the ships manifold (header), how should the connection be made?

A : With a bolt in every hole in the flange, securely and evenly tightened.

BLDD : You are alongside, preparing to load a cargo of Triethylamine. It will be supplied from shore using an 8-inch flexible hose. When securing this to the ships manifold (header), how should the connection be made?

A : With a bolt in every hole in the flange, securely and evenly tightened.



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

BLDX : Which item among those below is included in the normal equipment of every rescue boat ?

A : a sea-anchor with a hawser of more than 10m in length

BLFH : What is meant by that the tank atmosphere is "too rich" and "too lean"?

A : Atmosphere is not combustible in either situation.

BLGF : What is the purpose of the cylinder head safety valve?

A : To indicate and relieve excessive high pressure in the cylinder to protect the engine from being damaged.

BLGF : What is the purpose of the cylinder head safety valve?

A : To relieve excessive high pressure in the cylinder to protect the engine from being damaged.

BLIR : Which of the following are SRSAT COSPAS EPIRB frequencies :

A : 406,025 et 121,5 MHz

BLIY : Who is responsible for ensuring your ship completes a security assessment?

A : Company Security Officer

BLOW : What is the description for a sidelight, as shown in rule 21 of the International Regulations for Preventing Collisions at Sea?

A : A green light on the starboard side and red light on the port side, showing an unbroken light over an arc of 112.5 degree, from right ahead to 22.5 degrees abaft the beam on the respective side

BLRL : Which of the following knife types has a flexible blade, a round tip and is used for removing items from baking trays or spreading fillings and icing?

A : A palette knife.

BLTK : A loaded bulk carrier experiences heavy ice accretion on deck forward, what are the major concerns of the changes in stability?

A : Reduction of metacentric height (GM) and loss of freeboard forward

BLVT : During replacement of the main bearing shells on a medium speed diesel engine it is necessary to remove both the top and bottom half shells. From the options given select the method that is most commonly employed to remove the bottom half shells from the bearing pockets on an engine with a traditional bedplate?

A : Fit a driver in the crankshaft oil hole which bears against the edge of the bottom half shell and turn the engine.

BLWW : What do you understand by the term Grabbing?

A : Making the grab bucket open and close.



BLXA : Give the meaning of the following symbol

A : Line throwing appliance

BLXW : During a rescue operation, what should be taken onboard the Lifeboat / MOB ?

A : VHF / W-T

BMES : Define the class of emission F1B :

A : Radiotelex and DSC - Frequency shift keying of carrier with error correction

BMHG : Which statement about the use of profiling onboard a ship is true?

A : A random selection process must be established.

BMIR : Public correspondence VHF communications should normally be operated :

A : In G3E mode - on duplex basis

BMKP : What quantity of reserve fuel, if any, is to be available outside the main machinery space for a diesel driven emergency fire pump?

A : Sufficient amount for 15 hours of operation at full capacity

BMLK : Why is it important to keep the condensate PH- value in correct range?

A : To neutralize the acids occurring in the condensate system.

BMLK : Why is it important to keep the condensate pH value within the correct range when operating steam boilers?

A : To neutralize the acids occurring in the condensate system.

BMQM : How is bulk grain prevented from shifting?

A : By loading bagged grain in a saucer formation over the bulk grain

BMQM : What would indicate that the cargo holds are not properly sealed?

A : When dew point temperatures inside and outside the cargo holds are closely matched

BMTQ : At what temperature would you expect to carry a fully refrigerated cargo of butane?

A : - 4° C



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

BMVJ : Under way to discharging port temperature tests indicate fire in a hold loaded with coal. What is the first action to be taken?

A : Close all air ventilators and other openings to the hold in question

BMWY : Give the meaning of the following symbol

A : EPIRB

BNBG : By the International Convention for the Control and Management of Ships Ballast Water and Sediments, oil tankers are required to have a ballast water exchange plan that involves replacing ballast taken onboard at the previous port. What percentage volumetric exchange must be achieved?

A : 95%.

BNEO : What is the minimum number of channels required for the portable two-way VHF's for survival craft?

A : Channels 6, 13 & 16

BNFH : Passenger ships have a normal requirement of 1 lifejacket per person + 10% for children. In addition to this, how many lifejackets have to be stowed in conspicuous places on deck or at the muster stations?

A : 5% extra

BNIT : The responsible person for maintaining budget on board normally is:

A : Master

BNKJ : Choose the option which is most likely to result in erosion of the tubes in a heat exchanger.

A : Excessive cooling water velocity

BNKJ : Choose the option which is most likely to result in erosion of the tubes in a heat exchanger.

A : Cooling water velocity too high.

BNLE : Ordinary thyristors (SCR) must often be protected against reverse overvoltage transients because even over-voltages of extremely short duration can destroy them. These circuits have been given such over-voltage protection, but only one of them is correct. Which?

A : Figure 1

BNLE : Ordinary thyristors (SCR) must often be protected against reverse overvoltage transients because even over-voltages of extremely short duration can destroy them. These SCRs have been given such over-voltage protection, but only one of them is correct. Which?

A : Figure 1

BNOQ : Which electronic component is this graphical symbol illustrating:

A : Potentiometer, 10 kilo-ohms



BNOQ : Which electronic component is this graphical symbol illustrating:

A : Potentiometer, 10 kilo-ohms

BNPF : What will You do if the PH-value in the boiler water is under 7?

A : Increase the dosage of chemicals, and take new test of the water.

BNUC : On area A1 the function " Reception of shore to ship distress alerts" is mainly based on:

A : the use of VHF DSC

BNVG : The data logger on a reefer vessel normally records temperatures for air delivery, air return and cargo pulp. How would the air delivery and return temperatures be expected to vary during the first few days of carrying a cargo of citrus fruit which had not been pre-cooled before loading?

A : The difference between the two temperatures would steadily reduce.

BNXP : What purpose has an discharge booster pump on a gas tanker?

A : The main purpose with booster pumps is to increase the manifold pressure

BNXR : Is membrane tanks designed for carrying of ambient liquefied gases?

A : No, membrane tanks is normally designed for transport of fully refrigerated cargoes

BOGC : As per SOLAS regulations, the general emergency alarm system must be tested:

A : weekly

BOGV : These circuits are all active filters. Which of the circuits is a band-pass filter?

A : Figure 3

BOIO : To minimise the risk of damage what type of tools should be used to clean boiler burner tips?

A : brass knife

BOIQ : What is most important for the personnel on duty to supervise during a discharging operation including crude oil washing?

A : Act according to the check list "during crude oil washing".

BOKC : Your vessel is moving in Panama Canal waters. When must a crew man capable of and ready to operate the anchors be on the forecastle?

A : When a Panama Canal pilot is onboard



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

BOKC : Your vessel is moving in Panama Canal waters. When must a crew man, capable of and ready to operate the anchors, be on the forecandle?

A : When a Panama Canal pilot is onboard

BOKI : A diode may be tested by which method?

A : Use a Digital Multi-Meter set to check forward voltage and reverse current blocking

BOLT : The Training Manual shall contain instructions and information on the life-saving appliances and the best method of survival. The training manual shall contain detailed explanations of crew duties in relation to emergency situations. Which of the following tasks or duties shall be included in the manual according to present regulations?

A : The method and use of sea-anchors (drogues).

BOLW : What is the most important reason for separating a panicking passenger from the group?

A : Panic can spread and affect other passengers.

BONM : What shall a rescue person use if he has to jump into the water in order to assist a survivor?

A : Survival suit and lifeline

BOQX : You have recently discharged a cargo of Isoprene and the tank has been cleaned. There is still a strong smell of Isoprene vapour evident from deck. Can you save some time and use a mask fitted with an "Inorganic Gases and Vapours" filter to enter the tank for mopping and inspection?

A : No. Filter masks are not permitted for enclosed space entry where the oxygen content of the atmosphere may be insufficient to sustain life.

BOQX : You have recently discharged a cargo of Isoprene and the tank has now been cleaned. There is still a strong smell of Isoprene vapour evident from deck. Can you save some time and use a mask fitted with an "Inorganic Gases and Vapours" filter to enter the tank for mopping and inspection?

A : No. Filter masks are not permitted for enclosed space entry where the oxygen content of the atmosphere may be insufficient to sustain life.

BOQX : You have recently discharged a cargo of Isoprene and the tank has now been cleaned. There is still a strong smell of Isoprene vapour from deck. Can you save some time and use a mask fitted with an "Inorganic Gases and Vapours" filter to enter the tank for mopping and inspection?

A : No. Filter masks are not permitted for enclosed space entry where the oxygen content of the atmosphere may be insufficient to sustain life.

BOTH : Which of the following actions should be done before throwing this type of inflatable liferaft over the side?

A : Check that the painter is made fast to a secure point and that the sea below is clear

BOTI : By a 'geographical area call' in the DSC system is meant:

A : a DSC-message for all vessels within certain area marked by a reference position, given in the DSC message and the degrees are given in southerly and easterly direction

BOTK : The display of a DSC-controller shows the following:(see original)The name of this station can be found in:

A : List of Call Signs and Numerical Identities



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

BOUE : What hazards are associated with the carriage of wood pellets?

A : Oxygen depletion and generation of carbon monoxide in cargo and communicating spaces

BOUE : What hazards are associated with the carriage of wood pellets in bulk?

A : Oxygen depletion and generation of carbon monoxide in cargo and communicating spaces

BOUU : A cargo of frozen chicken is being presented for loading into a conventional reefer vessel. Which of the options given is the most appropriate packaging method that should be used for such a cargo?

A : It should be packed in cardboard cartons.

BOVF : A large electric motor is being removed from a main seawater pump with the aid of the engine room crane. Which is the best method of starting the lift from the options given?

A : Use a suitable chain block suspended from the crane hook to 'break' the motor free after slackening all of the retaining bolts.

BOXP : Is there any special area where it is forbidden to pump out any sludge or oil residues?

A : There is 5 special area where it is forbidden to pump out any sludge or oil residues

BOXP : Is there any special area where it is forbidden to pump out any sludge or oil residues?

A : There are 9 special area where it is forbidden to pump out any sludge or oil residues

BOYK : For what purpose are we using a Mollier diagram?

A : We use the Mollier diagram to calculate the cooling capacity of the cooling plant.

BOYK : Mollier diagrams are often used onboard liquefied gas carriers in relation to the reliquefaction plant and cargo carriage conditions. What parameters are represented by the main vertical and horizontal axis of the diagram?

A : Absolute pressure and enthalpy.

BPDE : The Training Manual shall contain instructions and information on the life-saving appliances and the best method of survival. The training manual shall contain detailed explanations of crew duties in relation to emergency situations. Which of the following tasks or duties shall be included in the manual according to present regulations?

A : Best use of the survival craft facilities in order to survive.

BPDK : Why are Chromate Based Cooling Water Treatments not allowed when the cooling system is connected to a fresh water generator?

A : It could poison the fresh water if leakage occurs.

BPDK : Why are Chromate Based Cooling Water Treatments not allowed when the system is connected to a fresh water generator?

A : It could poison the fresh water if leakage occurs.



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

BPEX : Why did they make the ladder ready on starboard side?

A : Because they expected the harbor pilot to board the ship at 0730.

BPEX : Why did they make the ladder ready on the starboard side?

A : Because they expected the harbor pilot to board the ship at 0730.

BPMV : What does a ship's angle of pitch vary with?

A : The ships length

BPMV : Why would a very large container vessel pitch more than a feeder vessel?

A : Because pitching varies with ship's length

BPQL : What must be observed when checking cargo lashing belts?

A : That they are not torn

BPQL : What must be observed when checking cargo lashing belts on a General Cargo Vessel?

A : That they are not torn

BQAQ : During discharging of crude oil the inert gas system fails totally. Should you:

A : Stop all cargo operations and close the deck IG line isolating valve

BQAS : One of the following areas is NOT a Special Area as mentioned in MARPOL regulations regarding pollution by oil. Which area?

A : The Gulf of Mexico

BQAS : One of the following areas is NOT a Special Area as mentioned in MARPOL regulations regarding pollution by oil. Which is that area?

A : The Gulf of Mexico

BQCL : What is the meaning of this symbol ?

A : Secure hatches

BQDK : Which of the following fluids has the lowest density?

A : Lubricating oil.



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

BQDK : Which of the following fluids usually has the lowest density at normal ambient temperatures?

A : Lubricating oil.

BQFB : Which means of communication is used by the NAVTEX system ?

A : MF

BQFY : Which of the following is a precautionary measure to prevent fire:

A : All the answers are good

BQFY : Which of the following is a precautionary measure to prevent fire in general:

A : All the answers are good

BQIE : Which organisations are authorised to carry out statutory surveys of UK ships?

A : MCA

BQKT : Do you confirm that personal safety provisions of the Seamens Act cannot, as per the NIS Act, be deviated from in a collective wage agreement?

A : Yes

BQNE : Why should wet cloths not be used for carrying hot cooking pans?

A : Because they conduct heat quickly and may cause scalding.

BQNG : What are the prerequisites for having a ship registered in NIS?

A : That the shipowner is a Norwegian subject or fulfils other requirements stated in Norwegian acts

BQOG : Which two persons check the Declaration of Security?

A : The Port Facility Security Officer and the Ship Security Officer

BQQL : Which of the statements given in the options relating to LNG carriers is true?

A : LNG is always carried at very low temperature.

BQQR : Which of the following requirements regarding the number of lifejackets provided do NOT correspond to present regulations? (SOLAS III/7.2)

A : A number of lifejackets equal to at least 10% of the total number of passengers and crew to be placed in the vicinity of the muster stations



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

BQRJ : One of the risks of using CO2 is the low temperatures that it reaches when it vaporises; this temperature is approximately

A : -79°C

BQUV : What should be observed concerning a ship's water tight integrity?

A : That all water tight ramps and doors are locked and secured at sea

BQYD : What is the procedure when a ship/shore bonding cable is connected ?

A : Connect bonding cable then connect hose.

BRBP : Which of the following are designated as "Special Areas" in respect of the control of the discharge of Noxious Liquid Substances under MARPOL?

A : Only the Antarctic.

BRCF : On area A2 the function "Transmission and reception of on scene communications" is mainly based on:

A : the use of MF and/or VHF R/T

BRDD : Every vessel equipped according to the rules of GMDSS must be provided with:

A : NAVTEX-receiver

BRED : How many sub-classes are there for IMDG Class 4 (Flammable solids) cargoes?

A : 3

BRED : In the context of oil tanker operations, what are "mercaptans"?

A : A group of naturally occurring organic chemicals containing sulphur, which give some crude oils a strong and distinctive smell

BRJT : On the figure 4 possible definitions of the term "Bridge" are given. Which one is the correct one?

A : Bridge is given by A on the figure

BRKR : UFL

A : Upper Flammable Level / Lower Flammable Level of explosive atmosphere?

BRKU : In order to extinguish a flammable liquid of the same kind as alcohol, we can use:

A : Anti-alcohol foam



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

BRRN : The speed of ships generator is regulated by the governor. A 10% reduction in generator speed occurs due to a faulty governor. The likely consequence for all motors powered from this generator is to:

A : Reduce motor speed by about 10%

BRUB : LNG is made up of a number of saturated hydrocarbons the greatest percentage of which is Methane. What are saturated hydrocarbons?

A : Saturated hydrocarbons contain hydrogen and carbon atoms with single carbon to carbon bonds.

BRUB : What are saturated hydrocarbons?

A : Saturated hydrocarbons are colourless and odourless liquids and they are chemically non-reactive.

BRUR : Every person onboard ship has a responsibility for safety and security. General house-keeping rules should be followed. Which of the listed rules is the most important onboard a tanker?

A : Never carry lighters or matches on the tank deck.

BRUR : Every person onboard ship has a responsibility for safety and security. General house-keeping rules should be followed. Which of the listed rules is the most important onboard a tanker?

A : Do not carry lighters or matches on the tank deck.

BRXD : How do You want to operate the purifier to obtain the best separation result?

A : Separation with correct temperature and low flow rate.

BRXF : To maintain a fire, three conditions need to be met: Oxygen, combustible material and sufficient temperature for combustion. What subject must be removed to extinguish the fire?

A : Either of the mentioned alternatives.

BRYX : What is the safe time for operating the crankcase door when oil mist alarm is activated and the engine has been stopped?

A : After 20 minutes

BRYX : What is the safe time for operating the crankcase door when oil mist alarm is activated and the engine has been stopped?

A : After at least 20 minutes

BSAQ : In accordance with GMDSS rules, the frequency 2187.5 kHz is used for:

A : distress alerting

BSDA : Automatic amplifier regulation is used for the following reasons:

A : with weak incoming signals distortion is reduced



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

BSFK : What is a polar (liquid)?

A : a liquid that mixes with water

BSHD : A class D fire involves what type of material?

A : Metals

BSJY : A seaman has failed to return to the ship after shore leave, what actions do you take?

A : If time permits, send someone to try to find him. Notify the agent. Have the seaman's possessions collected and packed by two crewmembers, with three lists of contents. Notify the company. Sign the seaman off in his absence, detailing reason for him/her no

BSME : In what kind of atmosphere should tank washing be carried out when no inert gas plant is in operation?

A : Too lean (less than 2% by volume of hydrocarbons) or over rich (in excess of 15% by volume of hydrocarbons).

BSMJ : Before starting a transfer of oil, the person in charge on the vessel and the person in charge on the facility must hold a pre transfer conference. Who must decide to start the transfer?

A : Both persons in charge

BSMX : What would be a typical setting for the overspeed trip to operate and shut down the engine on a medium speed diesel engine?

A : 15% above engine rated speed

BSNH : Temperatures are often measured by means of platinum resistance sensors. These curves are all calibration curves. Which of the curves is calibration curve for a Pt 100 sensor?

A : Figure 1

BSNH : Temperatures are often measured by means of platinum resistance The characteristics shown are all calibration curves. Which of them is a calibration curve for a P T100 sensor?

A : Figure 1

BSNH : Temperatures are often measured by using platinum resistance thermometers. The characteristics shown are all calibration curves for such devices. Which of them is a calibration curve for a P T100 sensor?

A : Figure 1

BSNH : Temperatures are often measured by using platinum resistance thermometers. The characteristics shown are all calibration curvesfor such devices. Which of them is a calibration curve for a P T100 sensor?

A : Figure 1

BSNI : With respect to earthing (grounding) of signal cables. Which of the 4 alternatives is correct for a cable for analogue signals?

A : Figure 1.



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

BSPO : Which item among those below is included in the normal equipment of every lifeboat ?

A : anti-seasickness medicine and one seasickness bag for each person

BSRE : Test dates of which items of machinery are entered in the chain register?

A : All

BSRE : Which of these is not covered in the chain register?

A : The gangway winch

BSTU : To which governmental body does the MAIB report ?

A : The Secretary of State responsible for Shipping

BSVJ : The circuit consists of two inductors, $L(1) = 6\text{ H}$ and $L(2) = 12\text{ H}$, connected in parallel. Calculate the equivalent $L(S)$ of the two inductors.

A : $L(S) = 4\text{ H}$

BSVK : Who is responsible for securing of derricks, cranes and other equipment?

A : The Master?

BSYF : Under U.S. Occupational Safety and Health Administration (OSHA) regulations when is a Vertical Tandem Lift possible?

A : When two intermodal containers one on top of the other are connected by semi-automatic twistlocks

BSYR : The shown provisions of the Maritim Act and the Seamens Act relate to each other. What combination is the most relevant?

A : Provisions on maritime inquiry and death and burial.

BTAG : Which one of the statements given in the options is correct in relation to the maintenance and adjustment of 4-stroke, medium speed diesel engines?

A : Both the top and bottom shells of a bottom end bearing should be inspected as they can wear due to load reversal during the engine operating cycle.

BTBL : Fire provokes:

A : gases, flames, smoke and heat

BTES : Which one of the listed requirements regarding life-jackets corresponds to present SOLAS regulations? A life-jacket shall be so constructed that:

A : It allows the wearer to jump from height of at least 4.5 m into the water without injury and without damaging the life-jacket.



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

BTHE : What is the purpose of a "part flow display system" installed on some oil tankers ?

A : The Part Flow System makes it possible to observe the discharge visually for oil content, on older tankers with discharge below the waterline

BTIP : A General Cargo vessel is to load 200 tonnes of cargo on deck at No 1 Hatch; what are the main stability changes that will occur ?

A : The draught forward will increase, the trim will change and the metacentric height (GM) will probably decrease

BTJR : How many rocket parachute flares are carried in each liferaft?

A : 4

BTKK : C

A : Constructed of non-combustible material

BTLL : Inert gas can be used to assist in drying cargo tanks and pipeline systems of LNG carriers. What is the required oxygen content and condition of the inert gas normally used for this purpose?

A : IG with an oxygen content of approximately 1% and a dew point of minus 45 C.

BTLL : Inert gas can be used to assist in drying cargo tanks and pipeline systems of some gas carriers. What is the required oxygen content and condition of the inert gas normally used for this purpose?

A : IG with an oxygen content of approximately 1% and a dew point of minus 45 C.

BTLL : What basic information do we get from the pumps flow-head curve?

A : We get information about the pump-s lifting height and liquid flow.

BTLL : What is normal composition of Inert Gas used for drying cargo tanks and pipes?

A : IG with an oxygen content of less than 1% and dew point of -45 C.

BTNT : The "inner bottom" is the :

A : Tank top

BT00 : When stripping a tank, if excessive air is allowed to be drawn into the suction line, which of the following may occur?

A : loss of suction

BTPM : What is meant by a two stage compressor ?

A : A compressor in which the compressed air from the first stage is further compressed in



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

BTPM : What is meant by a two stage compressor ?

A : Air from stage one goes through discharge valves in stage one and through suction valves into stage two. In stage two it will be compressed to high pressure air.

BTTW : A personal call means that:

A : the applicant on board wishes to have a conversation with a person whose name is known

BTVE : A MMSI number consist
o f :

A : 9 digits

BTVJ : The DoS addresses the responsibility for the security of the water around the ship and the verification of increased threat levels.

A : TRUE

BUAI : Instructions for "Preparation for welding or hot work in cargo tanks" is laid down by the Norwegian Maritime Directorate. Which of the following requirements regarding welding or hot work corresponds to these instructions?

A : Before the tank is entered, lifeline, rescue harness and compressed air apparatus shall be ready at the relevant hatch.

BUAK : The inert gas system shall be capable of delivering inert gas to the cargo tanks at a rate of at least:?

A : Once a year/18 months

BUAK : The inert gas system shall be capable of delivering inert gas to the cargo tanks at a specified percentage in relation to the cargo discharge rate. What is that percentage?

A : Once a year/18 months

BUCX : You are in a position as illustrated. What is the instantaneous oil discharge limit according to MARPOL ?

A : 30 L/nm

BUDW : The ABC-rules are an important part of the First Aiders know how. What does the First Aid ABC-rules stands for?

A : Airway Breathing Circulation

BUFWM : What is a contingency plan for ships?

A : Plan for safety preparedness

BUGD : The proper operation of the telex mode of an Inmarsat-A terminal can be tested by:

A : requesting an "automatic linetest"



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

BUGF : Your vessel is progressing within a Traffic Separation Scheme and receives a navigational warning of another vessel progressing the wrong way within the scheme. What actions should be taken on the bridge, if any?

A : - Use the Arpa for early identification of all other ship movements within the traffic lane and give rogue vessel a wide berth

BUJJ : On a Container vessel, when should a vessels hatch pontoons not be lifted?

A : When the heel of the ship is excessive

BUMG : A slow speed diesel engine is fitted with a slow turning facility. How would the slow turning normally be set to operate?

A : It should automatically operate before the normal start sequence following an engine

BUOO : What is a "carving note" used for?

A : It confirms that a ship has been "carved" and allows the Ship's Register to be issued

BUOR : The charge of a message sent by the Inmarsat-C installation must be calculated. The size of the message is 4096 bits. The charges for the message sent is 0,17 SDR per unit. The total charge for the message is:

A : 16 times 0,17 SDR

BUOW : On a General Cargo Vessel what are cowl ventilator trunks prone to suffer?

A : Corrosion

BUOW : What are cowl ventilator trunks prone to?

A : All

BURD : Many marine steam boiler designs incorporate external "downcomers". What is the main purpose of these downcomers?

A : Ensure adequate circulation in all conditions of steaming.

BUVV : Which of the following is a INMARSAT B Mobile Earth Station Identification Number (IMN)?

A : 322753810

BVBU : It is important that tools are in good condition when they are being used for maintenance. Incorrectly sharpened tools can be dangerous. Which of the following tools can be safely sharpened using a pedestal grinder?

A : Steel drill bit.

BVES : How many separate means of escape routes from passengers and crew spaces shall passenger ships carrying less than 36 passengers have?
(SOLAS II-
2 / 2 8)

A : Two



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

BVFR : Where do you find detailed information and specific technical requirements for life-saving appliances?

A : Life-Saving Appliance Code (LSA Code)

BVJN : The display of the DSC-controller on board is showing the following lines:RX: 002442000 ; Ch87 ; D Sellcall Routine We're asked to listen on:

A : VHF-channel 87

BVJQ : Which one of the given requirements regarding survival craft muster and embarkation arrangements corresponds to the present SOLAS regulations?

A : Muster and embarkation stations shall be readily accessible from accommodation and work areas.

BVKI : What is the IMO definition of liquefied gases?

A : Liquefied gases is defined as chemicals with vapour pressure above 2,8 bar absolute at 37,8oC

BVOA : You are to carry a cargo of Phenol across the North Atlantic in winter time. What precaution will you take with the double bottom tank located under the cargo tank containing the Phenol?

A : It should be empty, to avoid cold water contacted the structure around the product because Phenol has a relatively high melting point.

BVPK : In which cases shall side scuttles in passenger ships be so constructed that they cannot be opened without the consent of the master of the ship?

A : Where the sills of the side scuttles are below the margin line

BVQC : For how long should the self contained air support system on a totally enclosed lifeboat having its engine running be capable of providing safe and breathable air ?

A : 10 minutes

BVQF : You are proceeding along a narrow channel in front of another vessel, both heading for port. You hear this signal from the vessel behind you. What does it mean?

A : I intend to overtake you on your port side.

BVTJ : Does the Hygiene Officer employed by the MCA have the same authority as other MCA officials?

A : Yes, a ship can be detained on hygiene grounds, but it is more likely that after inspection the hygiene officer would call in other inspectors

BVYC : A diode is in good condition when the following test results are obtained using a Digital Multi-Meter.

A : With + to Anode a reading of about 0.6V, and with probes reversed a reading of O/L.

BVYC : A diode is in good condition when which of the following test results are obtained using a Digital Multi-Meter.

A : With + to Anode a reading of about 0.6V, and with probes reversed a reading of O/L.



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

BWBL : Having water vapour in an LNG carriers cargo tanks prior to loading cargo is unacceptable due to ice formation at low carriage temperatures. How can water vapour in the tank atmosphere be removed prior to the cooling down and loading operation?

A : By displacing the tank atmosphere with pre-dried inert gas.

BWBL : How to remove remaining water vapour in the tank atmosphere prior to cool down?

A : By displacing IG/Air tank atmosphere with warm methane.

BWEG : A received DSC 'distress alert' contains the following information: "UNDESIGNATED DISTRESS" Of this distress case:

A : the nature of distress is unknown

BWEI : After receiving a DSC-distress alert in the VHF frequency band one should:

A : listen out on VHF channel 16

BWKE : Erosive tube failure in a heat exchanger could be the result of:

A : Excessive cooling water velocity

BWKG : In a series installation of a purifier and a clarifier, what is the purpose of the clarifier

A : As a safety net, for improved cleaning of the fuel oil

BWLW : As a general rule, what is the minimum flash point of an oil used as a liquid fuel on board?

A : 60°C

BWSO : To maintain a fire, three conditions need to be met: Oxygen, combustible material and sufficient temperature for combustion. What subject must be removed to extinguish the fire?

A : Either of the mentioned alternatives.

BWVB : What should be the first indication that the engine room watchkeepers get that there is oil or water leakage in the engine room?

A : All those listed in the other alternatives

BWVB : What should be the first indication that the engineroom watchkeepers get that there is oil or water leakage in the engineroom??

A : All those listed in the other alternatives

BWWO : During test and/or maintenance work of the CO2 system affecting the release system, precautions to ensure that the gas is not released into the engine room due to a mistake are to be ensured. What precautions should be taken?

A : The main supply line to be blanked off prior to the work.



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

BWWT : What separating temperature do You mean is best for lub. oil?

A : 85 - 90 Centigrades.

BXAA : What is the purpose of an oil mist detector, OMD, as fitted to a diesel engine?

A : To detect and give an alarm and slowdown of any potentially explosive atmosphere in the crankcase.

BXFY : What do international and national maritime authorities say about passenger list?

A : All personnel onboard (crew and passengers) must be registered to keep a track of number of people onboard.

BXGO : What are the requirements regarding slop tank capacity on combination carriers with smooth walls (bulkheads)?

A : Not less than 1 % of the oil-carrying capacity of the ship.

BXGO : What is the purpose of the "Mud Box" on a tanker?

A : It is at the end of the pipeline in the tank and restricts any particles and solids entering the pipeline system.

BXHR : On a Container vessel, what must be done as soon as reefer containers have been loaded?

A : They must be connected to the ship's power supply and their setting temperatures verified

BXHR : What must be done as soon as reefer containers have been loaded?

A : They must be connected to the ship's power supply and their setting temperatures verified

BXKD : Which of the following duties shall be included in the "muster list" as being assigned to members of the crew ?

A : equipping of the survival craft

BXKL : What are the three volumes of the IAMSAR Manual?

A : - I Organization and Management II Mission Co-ordination III Mobile Facilities.

BXKT : What is a typical composition of LNG (Arabian Gulf)?

A : Methane 91% - Ethane 6% - Propane 3%

BXKT : What is a typical composition of LNG (Arabian Gulf LNG)?

A : Methane 91% - Ethane 6% - Propane 3%



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

BXLS : Why do we use oil free compressors on the cargo side in a cargo cooling plant?

A : We use oil free compressors in the cargo side to avoid oil spill into the cargo.

BXPC : When loading cargo, if line sampling is required, samples should be drawn from:

A : As near as possible to the ship's manifold?

BXPW : To control bleeding, a tourniquet should be applied:

A : Only when all other means have failed

BXUA : This circuit consists of a voltage source V , a change-over switch S , a resistor R and a capacitor C . The voltage/time figures 1 to 4 show changes in the voltage $V(C)$ when the switch S is suddenly shifted from position 1 to 2 at time $t = 0$. Only one of the diagrams is correct. Which?

A : Figure 1

BXUA : This circuit consists of a voltage source V , a change-over switch S , a resistor R and a capacitor C . The voltage/time figures 1 to 4 show possible changes in the voltage $V(C)$ in case the switch S is suddenly shifted from position 1 to 2 at time $t = 0$. Only one of the diagrams is correct. Which?

A : Figure 1

BXVV : Commonly available on board an oil tanker, what is the industry standard Guide that describes best safety practise for tanker and terminal operations?

A : The ISGOTT Guide

BXXT : What differences in design are there between a standard cargo hold and a cargo hold which can also be used for ballast on a Bulk Carrier?

A : The ballast hold hatch cover must be fitted with additional securing devices

BYAU : Some cargo containment systems for liquefied gas carriers are required to have a secondary barrier. How long, according to the IMO Gas Codes, should the secondary barrier be able to contain cargo leakage from the cargo tank?

A : By use of a float switch or differential pressure in the liquid receiver

BYCT : Where can the size of the Magnetic Compass Error be found?

A : By taking a transit bearing of two fixed geographical positions and comparing it with the bearing of the same points on the chart

BYII : How many hand held distress flares are carried in each liferaft?

A : 6

BYIJ : A cargo of palletized fruit on oblong pallets is being loaded into the tween deck space of a conventional reefer ship by stevedores under the supervision of the ships crew. The pallets are loaded with the long side athwartships to ensure a stable stow. The final space in the first row is too small to fit another pallet athwartships. Select the option which gives the best course of action to be taken to deal with this situation.

A : Complete the next row, cover the deck and secure the gap with wooden dunnage and plywood.



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

BYIN : Which country requires a vessel to have a written Waste Management Plan?

A : U.S.A

BYJD : While on boiler watch on an automatically controlled steam boiler the rating notices that the burner has failed to light following a drop in steam pressure. What action should be taken?

A : Call the duty engineer immediately using the engineers call alarm.

BYKV : You are on a 10.000 ton Chemical Tanker that in addition to fixed foam monitors, is equipped with portable foam applicators. One of the applicators is lost. When ordering a new one you would order one with:

A : A throughput of at least 400 liters a minute and a "throw" of 15 metres?

BYKX : Boiler water tests on a low pressure steam boiler show the chloride content to be 50 ppm. What action should be taken if any?

A : Do nothing.

BYKY : What is false regarding the function : " Transmission and reception of on scene communications "

A : On area A4 this function is based on the use of HF R/T

BYMI : Which of the following spices comes from bark?

A : Cinnamon

BYMI : Which of the following spices comes from dried tree bark?

A : Cinnamon

BYMK : A coast radio station for sea area A2 has at least the following frequencies at its disposal

A : 2187.5 and 2182 KHz

BYSG : Testing a SART is permitted:

A : at sea, outside territorial waters, and in a port or harbour

BYSN : Shall a special form for employment agreement be used for service on NIS ships?

A : Yes, on a form prescribed or approved by the Norwegian Maritime Directorate

BYXC : Why is it necessary to check for cold spots in the hold spaces of an LNG carrier during loaded voyages?

A : To check for signs of leakage since the very cold carriage temperatures for LNG could result in hull structural damage in the unlikely event of a leak.



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

CABB : When the temperature of lubricating oil is lowered, an increase will occur in the:

A : Viscosity.

CABD : The Muster List shall show the duties assigned to members of the crew. Which of the following duties shall be included in the "muster list" according to present regulations?

A : Closing of watertight doors, fire doors, valves, scuppers, sidescuttles, skylights.

CABE : On what frequency is the radio telephony two tone alarm normally sent?

A : 2182KHz

CABT : During a helicopter evacuation, the helicopter lowers his winch wire to the deck. Which of the following should NOT be done with the winch wire?

A : All of the mentioned actions

CABV : What English term is applied to dried foods that have been rehydrated by soaking in water or another liquid?

A : Reconstituted.

CADH : Please indicate the correct sequence of action to take place in an alarm/monitoring and safety system.

A : Alarm, st.by start, slowdown, shutdown

CAGE : What would be the preferred colour to use when maintaining the paint on shell, plating, structure and bottom/tanktop in the engine room?

A : White or light grey to ensure all minor spills and leakages are noticed and dealt with.

CAGF : When are power-operated watertight sliding doors (class 3 doors) compulsory for all watertight doors aboard passenger ships?

A : Where the ship has passenger spaces below the bulkhead deck

CAGF : On the diagram provided, there are 4 possible directions of the term "AHEAD". Which one is the correct?

A : Ahead is given by A on the figure

CAGF : On the diagram provided, there are four (4) possible directions indicating the term "AHEAD". Which one is the correct?

A : Ahead is given by A on the figure

CAGI : In a typical shipboard de-humidifier plant as may be found on a modern chemical tanker, operating on a "rotating bed" principle, what names are given to the two parts of the rotating bed?

A : The "process sector" and the "reactivation sector".



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

CAGI : In a typical shipboard de-humidifier plant which operates on a "rotating bed" principle, what names are given to the two parts of the rotating bed?

A : The "process sector" and the "reactivation sector".

CAGV : Spray painting has been carried out in the engine room while the engine was running. The turbocharger was not protected during the work. This could be the reason for:

A : Exhaust gas temperatures are higher than normal.

CAHU : You are in an area of restricted visibility. You hear this sound signal. What does it mean?

A : That there is a vessel in distress nearby.

CAMR : When a ship is switching from ammonia to LPG virtually all traces of vapours must be removed. What is the allowable concentration of ammonia vapour in the tank prior to loading the next cargo?

A : Less than 20 parts per million.

CAPW : A chlorine carrier must be equipped with a chlorine absorption plant connected to the cargo tanks and cargo lines. This requirement includes the provision of gas detectors for the spaces and areas around the cargo containment system and the absorption plant outlet. What is the recommended setting for the visual and audible alarms of the gas detectors?

A : 5 ppm.

CAPW : A chlorine carrier must be equipped with a chlorine absorption plant connected to the cargo tanks and cargo lines. What is the gas detectors alarm setting?

A : 5 ppm.

CARJ : What is the main problem associated with a bulk cargo suffering moisture migration and developing a flow state

A : The cargo becomes semi-liquid and shifts easily causing major stability problems

CBAC : When cross-flooding arrangements to correct unsymmetrical flooding and excessive heel angles in damaged condition are installed in passenger ships, what is the maximum angle of heel after flooding but before equalization?

A : 15 degrees

CBAH : During helicopter evacuation of an injured man, what course should the ship steer?

A : As instructed by the helicopter pilot

CBBT : When a conventional rudder is put hard over it creates a lift force and a drag force. When the ship has started to turn, how much lift force do you think remains if the rudder-angle is decreased to 20 degrees from hard over position (35 degrees)?

A : About 80 %

CBBT : When a conventional rudder is put hard over it creates a lift force and a drag force. When the ship has started to turn, how much lift force do you think remains if the rudder-angle is decreased to 20 degrees from hard over position (35 degrees)?

A : - About 80 %



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

CBBW : On a RoRo vessel, what should be done if cracks are found on portable deck supports?

A : Stop cargo operations on that deck and inform the master

CBBW : What should be done if cracks are found on portable deck supports?

A : Inform the master

CBEC : What is the definition of a young person as it applies to the Crew Agreement?

A : Someone of at least school leaving age and less than 18

CBHK : SART is short
f o r :

A : Search and Rescue radar transponder

CBHQ : What are the ordinary working hours on NIS ships?

A : Maximum 8 hours per day, or 40 hours per week

CBJF : The compulsory testing of a prescribed SART is to be done:

A : once a month

CBMA : On a General Cargo ship, which of the following statements is correct?

A : The first row of steel coils must be loaded on dunnage laid athwartships

CBMA : Which of the following statements is correct?

A : The first row of steel coils must be loaded on dunnage laid athwartships

CBTH : When on duty, or working in a cargo deck stowed with containers and you want to have a cigarette, what do you do?

A : Walk to a smoking area inside the accommodation?

CBUI : During cargo operation damage occur to the ships gear or equipment. What to do first?

A : Report to the chief officer or chief engineer.

CBYE : The manually controlled inside lamp must be capable of working at minimum for a period of:

A : 12 h



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

CCCT : During which time may watertight doors in watertight bulkheads in tweendeck cargo spaces be kept open in passenger ships?

A : In ports only

CCEH : Which wave length applies to a frequency of 150 MHz?

A : 200 cm

CCML : When handling and connecting cargo hoses between ships you might be required to have a bend in the hose when it is suspended. The minimum radius of the bend is governed by the diameter of the hose and is generally calculated as:

A : 6 times the hose diameter.

CCNF : How will you treat a seasick person?

A : Leave him in bed or request him to have some fresh air.

CCOE : What will happen with the interface in the bowl, if the flow is too high?

A : Broken water seal.

CCOF : Some of the valves in the system are marked ESD. What does this mean?

A : Emergency shut down.

CCPQ : When loading LNG into prismatic type cargo tanks it is sometimes prohibited to leave any of the tanks between 10 to 80% full at completion of loading. What is the main reason that it is recommended to avoid this prohibited partly filled range?

A : The free surface effect might result in excessive sloshing loads.

CCSF : What do you do after receiving a MF DSC DISTRESS call ?

A : You set watch on channel 2182 KHz

CDBN : According to their physical state, extinguishing agents may be classified:

A : Solid, liquid and gases

CDBN : According to their physical state, extinguishing agents may be classified in to:

A : Solid, liquid and gases

CDJB : Which is the correct term given to the company providing stores and provisions to a ship in port?

A : The ship chandler



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

CDJB : Which is the correct term given to the company providing stores and provisions to a ship in port?

A : The ship chandler

CDJY : The purpose of the wear ring for the illustrated pump is to -

A : Provide a replaceable wear surface for the pump housing/impeller.

CDRH : Which of the following is not a mean of ensuring the availability of equipment (maintenance methods)?

A : Computer-aided maintenance

CDSB : During the 5-yearly overhaul and operational test of a lifeboat on-load release gear, to what level should the gear be load tested?

A : - 1.1 times the total mass of the lifeboat when loaded with its full complement of persons and equipment.

CDVT : What is meant by a two stage compressor ?

A : Air from stage one goes through discharge valves in stage one and through suction valves into stage two. In stage two it will be compressed to high pressure air.

CDWF : What must be done before a holder of a Non- Norwegian certificate can serve in a position for which a certificate of competency is required on NIS ships?

A : A duly completed application with certificate etc. must be made to the public supervisory authorities as an endorsement/ qualification document

CDWK : "Fading" can partially be compensated by:

A : Automatic gain control

CDYP : Double-bottom tanks of a General Cargo ship are to be ballasted with sea water; which of the following are the most important checks to be made ?

A : All air vent pipes open and clear, pipeline valves open to correct tanks and other tank valves checked closed

CEBM : What do you think would be the most likely cause of too low suction pressure in a freon compressor?

A : System undercharged with refrigerant

CEBM : What do you think would be the most likely cause of too low suction pressure in a freon compressor?

A : Too little gas in the system.

CEEF : Cargoes such as Phosphoric Acid often leave heavy sediment in the bottom of the tank after discharge. How is this usually minimised?

A : By circulating the cargo on passage.



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

CEEF : On a Container vessel, cargoes such as Phosphoric Acid often leave heavy sediment in the bottom of the tank after discharge. How is this usually minimised?

A : By circulating the cargo on passage.

CEEF : What information should be displayed on a Fumigated Container?

A : The proper name of the fumigant and the date it was applied

CEFN : Under which regulations would steel banding remaining in a cargo hold have to be discharged?

A : MARPOL 73/78 (Annex V - Regulations for the prevention of pollution by garbage from ships)

CEHB : Ships generators must be synchronised before they can be connected to the same supply network. Prior to synchronising, the generator voltage and frequency are respectively adjusted by:

A : AVR and speed governor

CEIB : What would be a typical oil feed temperature for purifying heavy fuel oil in a centrifuge in order to ensure good separation?

A : 95 - 98 Celsius.

CEIB : What would be a typical oil feed temperature for purifying heavy fuel oil in a centrifuge in order to ensure good separation?

A : 98 Centigrades.

CEIC : In case of fire in the switch board, what kind of extinguisant to be preferred?

A : CO2

CEJU : Why did they order another tug?

A : Because they wanted to make sure that the ship could be safely turned.

CEME : How is a Safety Management Certificate obtained?

A : Ship owner has Document of Compliance issued, and vessel is assessed and holds all statutory certificates

CEME : How is a Safety Management Certificate obtained?

A : Ship owner has Document of Compliance issued, and vessel is assessed and holds all

CEOV : Ship to ship communication during SAR should be executed by?

A : VHF and MF



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

CEOW : Which of the following cargo types could normally be stowed next to drums of cement on a General Cargo Vessel?

A : Steel plates

CEPQ : Personal hygiene is important in all professions, especially cooks who should be particularly careful. Why?

A : Because a cook handles food and beverages and could easily be a spreader of viruses and infections.

CETS : For how long shall time sheets concerning working hours on board ships be kept after their completion?

A : For minimum 3 years

CETX : The position of a 406 MHz Cospas-Sarsat EPIRB is:

A : measured by the "dopler" shift in the signals

CEVQ : What could result from carrying coal with a high sulphur content?

A : Corrosion of steelwork in the cargo holds if the cargo becomes wet

CEVQ : What could result from carrying coal with a high sulphur content on a Bulk Carrier?

A : Corrosion of steelwork in the cargo holds if the cargo becomes wet

CFBL : Why did the Second Engineer wish to make a monthly allotment?

A : Because he was married.

CFBL : Why did the Second Engineer wish to make an monthly allotment?

A : Because he was married.

CFBM : Which of the following prevention actions offers the guarantee of an efficient intervention in an emergency

A : All answers are goods

CFDU : Temperature sensors of all types are normally mounted in a well, or pocket, when used in pipelines. Why?

A : Allow removal of the sensor also when liquid is flowing in the pipe.

CFDU : Temperature sensors of all types are normally mounted in a well, or pocket, when used in pipelines. Why is this done?

A : Allow removal of the sensor also when liquid is flowing in the pipe.



CFGH : The watertight integrity of a vessel must be intact, when?

A : When manoeuvring?

CFHB : There are many applications in circuit theory where it is important to obtain the maximum possible power that a given source can deliver. This figure consists of a practical voltage source $V(g)$ with internal resistance $R(s)$. A resistance $R(L)$ will maximize the power transmission from the source to $R(L)$?

A : $R(L) = R(s)$

CFHB : There are many applications in circuit theory where it is important to obtain the maximum possible power that a given source can deliver. This figure consists of a practical voltage source $V(g)$ with internal resistance $R(s)$. What resistance $R(L)$ will maximize the power transmission from the source to $R(L)$?

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CFHB : There are many applications in circuit theory where it is important to obtain the maximum possible power that a given source can deliver. This figure consists of a practical voltage source $V(g)$ with internal resistance $R(s)$. What value of resistance $R(L)$ will maximize the power transmission from the source to $R(L)$?

A : $R(L) = R(s)$

CFOP : The bowl in a fuel oil separator opens unintentionally during operation. What is the reason to this?

A : Strainer in operating water low-pressure side is clogged.

CFSA : What is the purpose of watertight doors?

A : They will be closed if the ship get a damage on the ships hull, and taking in water. It will prevent the water to fill the whole deck. In case of fire they can also be used to stop the fire and smoke from diverge.

CFWG : What is the minimum number of bolts required in a 12 inch bolted flange cargo hose coupling?

A : A bolt in every hole

CFXD : Can an MCA Marine Officer prosecute a master of a non-uk ship?

A : They can bring any seafarer involved in an incident on the UK coast to court and provide evidence regarding the incident

CFYN : Most of the engine makers recommend to change the cylinder head gaskets each time a piston overhaul is carried out. Why?

A : To obtain a proper sealing and correct distance between piston and cover in TDC position

CFYN : Most of the engine makers recommend to change the cylinder head gaskets each time a piston overhaul is carried out. Why?

A : To minimise risk of gas leakage and ensure correct clearance between piston and cylinder cover.

CGAH : What is the ideal relation between two following amplitudes on the response curve

A : 1:4



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

CGAJ : In a two stage compressor you will find pistons with different diameters (one is bigger than the other).Which one of the following statements is correct ?

A : The smallest diameter piston is the stage two piston.

CGDK : What is the relative liquid density of Methane?

A : 0.427

CGDM : According to SIGTTO publications, what is a typical accuracy for LNG pressure measurement equipment?

A : +/- 0,0015 bar (which will apply within the MARVS of the tank)

CGDM : What are typical accuracies for LNG measurement with regard to pressure?

A : +/- 0,0015 bar (which will apply within the MARVS of the tank)

CGDW : Which class of emission is used for VHF DSC transmissions ?

A : F1B

CGDX : What is Inert Gas ?

A : It is a gas containing insufficient oxygen to support the combustion of hydrocarbons.

CGER : Which of the following fittings shall be provided to all lifeboats:

A : a manually controlled lamp fitted on the inside

CGIR : A conventional reefer vessel is carrying a cargo of chilled palletised fruit. During a period of bad weather some of the bottom cartons on a pallet have compressed causing the pallet to distort, resulting in the cargo leaning to one side. Which of the options given is the safest way to discharge the cargo from the affected pallet?

A : Break the pallet down and re-stow the cartons so that the pallet is stable and then lift it in the normal way.

CGMA : On a Bulk Carrier, when should the drainpipe covers fitted to hatch coamings drains be secured?

A : In the event of a cargo hold fire

CGMA : When should the drainpipe covers fitted to hatch coamings drains be secured?

A : In the event of a cargo hold fire

CGON : Mention some important thoughts for what you have to do when you recognise that fire break out onboard.

A : Report to bridge or duty officer, actuate the fire alarm, call the persons around the fire and join the fire squad



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

CGPV : Which of the following is not part of the spill response equipment inventory?

A : The pressure washer

CGPV : Which of the following is part of the spill response equipment inventory?

A : Sorbents

CGQI : Modern conventional reefer vessels tend to be designed with large, unobstructed areas on the main deck. Select, from the options given, the main reason for this feature of the vessels design.

A : To leave the maximum space available for the carriage of containers on deck.

CGRH : Which of the options given is the main reason for using a ring spanner to tighten the brass nuts on the cover studs of a pump casing?

A : It will minimise the risk of slipping off the nut or damaging the nuts.

CGSB : One particular group of hazardous goods is highlighted by the IMDG Code as potentially being the most dangerous for carriage. Which of the following is it?

A : Organic peroxides.

CGUH : A

A : Insulated on both sides with approved non-combustible material

CGXS : What is the meaning of the term "valve clearance"?

A : The clearance between the rocker arm and valve pushrod.

CGXV : What should a cadet be aware of when using a needle gun?

A : He should be aware of the steel thickness of the valve

CHAV : Under international regulations for a Bulk Carrier, who needs to be trained in the use of oxygen analysis and gas detection equipment?

A : The ship's crew

CHAV : Under international regulations who needs to be trained in the use of oxygen analysis and gas detection equipment?

A : The ship's crew

CHAV : What does the IMSBC Code emphasise with reference to the exposure of personal to the dust created when carrying some bulk cargoes?

A : A high standard of personal hygiene



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

CHCP : An important physical property of LNG is the saturation vapour pressure. What is the IMO definition of the term "saturated vapour pressure"?

A : The pressure at which a vapour is in equilibrium with its liquid at a specified temperature.

CHCP : What is the definition of "vapour"?

A : A gas which can be liquefied at the temperature concerned.

CHHV : The training manual shall contain instructions and information in easily understood terms and illustrated wherever possible. Which of the following objects do not have to be explained in detail in the manual according to present regulations?

A : Donning of fire protection clothing

CHHV : The training manual shall contain instructions and information in easily understood terms and illustrated wherever possible. Which of the following objects have to be explained in detail in the manual according to present regulations?

A : Donning of fire protection clothing

CHMA : Your vessel is moored alongside in Houston, discharging oil to the terminal. During discharging your vessel is hit by an other vessel and your vessel is leaking oil into the Houston Channel. What will you as Sen.Off.Deck do?

A : Stop discharge, inform USCG and Qualified Individual.

CHNU : What characterizes a 2 stroke diesel engine ?

A : A 2 stroke engine has an ignition every time the piston reaches its top position

CHPK : A cargo hold containing cargo such as nitrates, chlorates etc which produce oxygen under the influence of heat catches fire. How would you deal with this?

A : With this type of material the hatches should not be battened down. The fire can only be extinguished by using large quantities of water.

CHQA : The proper operation of an Inmost C-terminal can be tested by:

A : doing a "linktest"

CHQC : An immersion suit which has its own buoyancy is fitted with:

A : a light plus a whistle

CHRB : What is the purpose of the decanting line between two slop tanks on an oil tanker that is using water for the washing of the cargo tanks?

A : Make it possible to retain most of the recovered oil in the primary slop tank, while cleaner part of the water will flow into the secondary slop tank, where it can be re-used as wash-water

CHRB : What is the purpose of the decanting line between two slop tanks when you are water washing a cargo tank?

A : Make it possible to retain most of the recovered oil in the primary slop tank, while cleaner part of the water will flow into the secondary slop tank, where it can be re-used as wash-water



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

CHRU : When connecting a tugboat, what speed do you think is best for your vessel to maintain during this operation?

A : The speed should be less than 5 knots, normally 3 - 5 knots

CHRU : When connecting a tugboat, what speed do you think is best for your vessel to maintain during this operation?

A : - The speed should be less than 5 knots, normally 3-5 knots

CHTJ : On a Container vessel, with regard to fire precautions, what must be ensured prior to securing hatch pontoons?

A : That all cargo clusters have been removed from the hold

CHTJ : With regard to fire precautions, what must be ensured prior to securing hatch pontoons?

A : That all cargo clusters have been removed from the hold

CHXS : What kind of foot wear should be used when working on deck and in the engine room?

A : Safety shoes or safety boots

CHYN : The squelch on the control panel of a VHF-sat serves to:

A : adjust the threshold level for admitting signals and refusing noise

CIAG : What kind of safety equipment must be worn during anchoring?

A : All of the mentioned equipment.

CIBB : Which of the tools given in the options would be best suited for cutting a piece of angle iron?

A : Hacksaw.

CIIO : Which of the following names is given to the basic types of foam as far as they are differentiated according to the way bubbles are obtained:

A : Chemical, physical or mechanical foams

CILX : What is the meaning of this symbol ?

A : Start air supply

CIMU : What is the highest permitted back-pressure for the Cargo Pump when it is tested?

A : 1.25 times the maximum working pressure



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

CINO : How would you know how many people a lifeboat is supposed to hold?

A : The number of persons should be clearly stated on the outside of the boats bow.

CIPJ : When work must be done on High Voltage equipment, it is vital that the equipment is earthed (grounded) after isolation procedures have been carried out. Why is this?

A : To ensure that no energy remains in the system and that it cannot be recharged by external influences.

CIPM : One or a certain number of smoke sensors are switched off during routine maintenance work to prevent false alarm. During coffee break the following precautions are taken:

A : All alarms are reengaged prior to switching to UMS-mode

CIPO : Your vessel is a tanker, discharging to a facility where the storage tanks are up on a hill behind the quay. You have a problem with your hydraulic plant and the system shuts down. What must be done with the manifold and why?

A : The valve must be shut to avoid backflow due to the head of pressure from shore.

CIUK : What is the period of validity of a PC

A : 1 year

CIUL : How often must inspection of proper working of the EPIRB 's and SART 's take place on board? Once per:

A : month

CJHL : One of the checks during the annual Class survey of the UMS functions is focusing on cleanliness of the engine room. What is the reason for such a check ?

A : To reduce the general risk of fire in an unmanned engine room.

CJLY : On area A4 the function " Transmission and reception of signals for locating " is mainly based on:

A : the use of SART transponders

CJNM : What is the shortest distance between two points?

A : Great circle

CJNM : What is the shortest distance between two points?

A : Great circle

CJNM : What is the shortest distance between two points on the surface of the earth?

A : Great circle



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

CJNR : What is the most important factor influencing the VHF range?

A : the height of the antenna

CJTT : On a container vessel, with regard to the carriage of Calcium Hypochlorite what is not allowed under the IMDG Code?

A : Calcium Hypochlorite packed and shipped in bags

CJTT : With regard to the carriage of Calcium Hypochlorite what is not allowed under the IMDG Code?

A : Calcium Hypochlorite packed and shipped in bags

CJUB : All closing arrangements, stowing of cargo etc. are subject to regulations by the Norwegian Maritime Directorate (NMD). Which of the following requirements regarding hatches, hatch covers etc. corresponds to present regulations? (NSCL 4/10.1.8 - 10.1.10)

A : Deck cargo shall not block emergency exits or exits from accommodations or machinery spaces.

CKAH : What name is given to the independent detection and warning system aimed at preventing overfilling of a cargo tank (and ultimately overflow of cargo) on a chemical tanker?

A : High level alarms.

CKAU : Non distress calls on 2182 kHz and VHF channel 16 should not exceed:

A : One minute.

CKAY : Chemical tankers are built with either "gravity" or "pressure" type cargo tanks. A "gravity" tank is one having a design pressure at the top of the tank
of
:

A : 0.7 bar?

CKBY : The vessel is in a 360 degrees turn with engine full ahead. If the engine speed is reduced during the turn, will there be any change in the turning diameter?

A : Yes, the turning diameter will increase if I reduce speed

CKBY : The vessel is in a 360 degrees turn with engine full ahead. If the speed is reduced during the turn, will there be any change in the turning diameter?

A : Yes, the turning diameter will increase if I reduce speed

CKFA : What is the meaning of instrument calibration

A : Comparing input and output values against a documented standard

CKHN : The discharge arrangements for halogenated hydrocarbon total flooding systems shall be so designed that the minimum quantity of medium can be discharged in (based on the discharge of the liquid phase): (SOLAS II-2/5.3.5)

A : 20 seconds or less



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

CKHS : Based on average consumption, how much beef entrecote would you buy for 90 days for a crew of 30 men?

A : 75 Kg

CKIH : Which one of the listed requirements regarding life-jackets corresponds to present SOLAS regulations ? A life-jacket shall be so constructed that:

A : it allows the wearer to jump from height of at least 4.5 m into the water without injury and without damaging the life-jacket

CKII : For how long time should a SARSAT COSPAS epi rb be able to operate on its batteries ?

A : 48 hours

CKLT : What is the radio telephone distress signal?

A : MAYDAY

CKPA : What is the purpose of refractory linings in an oil fired steam boiler furnace?

A : Prevent excessive furnace heat losses

CKPX : On an "Unattended Machinery Space" classed vessel, the high pressure fuel pipes are covered with steel flexible shrouds with drainage. What is the main purpose of this protection?

A : In case of a bursting pipe, to avoid oil spray hitting adjacent hot surfaces or coming into machinery air intakes

CKPX : On an "Unattended Machinery Space" classed vessel, the high pressure fuel pipes are double pipes, or covered with steel shrouds, with drainage. What is the main purpose of this protection?

A : In case of a bursting pipe, to avoid oil spray hitting adjacent hot surfaces or coming into machinery air intakes

CKRM : How often must lifeboats be launched i.e. in the water on a British ship

A : Periods not exceeding 3 months

CKSH : If Mouth - to - Mouth (M-T-M) ventilation by itself is unsuccessful and the casualty's heart stops, or has stopped beating, you must perform External Chest Compression (ECC) in conjunction with M-T-M. What is the rhythm when performing M-T-M in combination with ECC with one First Aider only ?

A : 15 compressions followed by 2 full ventilations.

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A : 15 compressions followed by 2 full ventilations

CKSJ : Carbon is the element that naturally forms most natural chemical compounds. In natural conditions there are only two different carbon elements, which ones?

A : Diamond and graphite.



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

CLAV : When cleaning cargo tanks with portable machines, how is the machine grounded?

A : The water supply hoses contain internal wires that act as conductors

CLIB : Choose the option which most accurately completes the following statement. The expansion tank in a closed cooling water system is designed to maintain a positive head on the system and also to.....

A : Allow for changes in water volume due to temperature variation (expansion)

CLIB : Choose the option which most accurately completes the following statement. The expansion tank in a closed cooling water system is designed to maintain a positive head on the system and also to.....

A : Allow for increase in water volume

CLLW : Which international convention deals with maritime safety and safety equipment onboard ro-ro passenger vessels?

A : SOLAS

CLNB : Oily rags and metal turnings

A : are a fire hazard because they are liable to spontaneous combustion

CLPR : What is the purpose of the corrugations on the plates?

A : All of these.

CLUS : On chemical tankers, where dangers of both flammable & toxic gases exist, instruments to detect these shall be provided. If portable equipment is provided, you shall have:

A : At least two sets of instruments to detect each type of gas expected to be encountered?

CLUU : What will You do if the PH-value in the boiler water is over 11?

A : Blow the boiler and renew water until the PH-value is normal again.

CLUY : Is the location of the Compass Binnacle critical?

A : Yes, for the reasons stated in all of the suggested answers

CLVE : At what calendar interval is a "Special Survey" required?

A : - 5 years.

CLWK : How many grams of margarine and white flour would you use to make 1 litre of cream soup?

A : 40 gr of each



CLYV : A « OSC » is
:

A : The master of a ship who coordinates on scene search and rescue operations

CMBM : Car decks on board ro-ro passenger ships are normally closed during sea passage. Why are passengers not allowed to be on the car-deck during sailing?

A : In case of an emergency situation it can be difficult for passengers to escape. Vehicles, lorries, trailers and other cargo are maybe lashed and it is a substantial chance for passengers to get

CMDG : If drugs or suspected drugs are found onboard your ship, follow the five C's. Confirm, Clear, Cordon, Control and:

A : Check

CMEJ : On a RoRo vessel, which of the following is not required in the pre-stowage plan?

A : Checking communications equipment

CMEJ : Which of the following is not required in the pre-stowage plan?

A : Checking communications equipment

CMEJ : Which of the following is required in a ro-ro cargo pre-stowage plan?

A : All

CMET : One has a direct connection with a telex-subscriber by way of a coast-station. What command break the land line connection with the subscriber:

A : kkkk

CMJB : How long should it take to release at least two thirds of the charge of CO2 that is provided for a ro-ro cargo space protected with a fixed carbon dioxide fire-extinguishing system?

A : Not more than 10 minutes

CMLL : A shore gangway is supplied, who is responsible for ensuring that it is properly rigged

A : The Master

CMOA : For which ships is the load line convention applicable?

A : For all vessels.

CMQK : After washing cargo holds why are cargo residues often found on the tank top when hatches are opened at the load port?

A : Because of cargo residues falling down due to ship's vibrations during the ballast passage



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

CMQO : What are the more likely causes of damage to the cargo holds internal structure on a General Cargo vessel?

A : Damage may be caused by fork lift truck operations and loading/discharge of heavy cargo

CMRF : The Decca navigation system is a:

A : Radio navigation system with four radio beacons placed in a Decca chain ashore.

CMTS : A Cospas-Sarsat EPIRB can be used in:

A : all sea-areas (A1 to A4)

CMWC : On the figure 4 possible definitions of the term "QUAY" are given. Which one is the correct one?

A : Quay is given by A on the figure

CMWH : On the figure 4 possible definitions of the term "PORT QUARTER" are given. Which one is the correct one?

A : Port quarter is given by D on the figure

CNAM : Training manuals for Life Saving Appliances and Fire Fighting systems and equipment shall be provided in crew mess room, recreation room or in each crew cabin. The training manuals shall explain the following in detail:

A : Emergency procedures including alarm signals, general instructions and safety practice onboard, specific information on equipment, operation of equipment

CNAR : What are the main elements in a damage control plan?

A : Boundaries of the watertight compartments for decks and holds. Position of controls for opening and closing of watertight compartments. Arrangement for correction of list due to flooding.

CNBC : Under what regulations would steel bands remaining in the cargo holds have to be discharged?

A : MARPOL 73/78 (Annex V – Regulations for the prevention of pollution by garbage from ships)

CNIR : For transporting a casualty with a fracture; If a Neil-Robertson stretcher is not available:

A : A wide wooden board may be used

CNLM : What is the definition of "clingage"?

A : They tend to contain heavy vapours inboard during cargo operations?

CNMN : The bones in the human body are connected to each other by:

A : Different type of joints



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

CNNC : The muster list shall show the duties assigned to the different members of the crew. Which of the given duties do not necessarily have to be included in the muster list?

A : Clearing escape routes

CNNX : Do you need a sink if your ship is provided with a dishwashing machine?

A : A sink is always needed irrespective of the type of the dishwashing machine provided.

CNOM : What English name is given to all the plates, cups, saucers, serving dishes, etc?

A : Crockery.

CNOS : Cross-flooding fittings shall be operable from:

A : Above the bulkhead deck

CNQG : A distress-call received via RCC should:

A : only be given receipt when the ship is actually able to give assistance

CNQH : The container for an inflatable liferafts shall be made:

A : watertight, as far as possible,except for drain holes in the container bottom

CNSC : The vessel is instructed to load alternate holds when chartered to carry a high density cargo. What reasons could be given by the master to refuse to do this?

A : IMO do not recommend alternate loading of cargo holds with high density cargoes.

CNSU : What could be the reason if the lub oil viscosity decrease?

A : Diesel oil leakage to the lub oil system.

CNUQ : How would you pick up a knife from a bench?

A : By the handle, with the blade facing away from me.

CNUQ : How would you pick up a small cutting knife from a bench?

A : By the handle, with the blade facing away from me.

CNVF : What should not be done when a container of liquid ammonia is on fire?

A : Restrict ventilation



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

CNVF : What should one bear in mind when a tank container of liquid ammonia is on fire?

A : Allow ventilation

CNYS : The temperature of the feed water for an auxiliary boiler is automatically controlled by a pneumatically actuated steam valve at the inlet to the pre-heater. It is noticed that during high demand the temperature falls by an unacceptable amount and takes a long time to return to the set temperature even though the steam supply pressure remains constant. Select from the options given the most likely cause of this.

A : The controller proportional band is set too wide and the reset time is set too long.

COEV : Which of these is correct?

A : 1 tonne = 1000 kg

COHG : Pure Nitrogen is sometimes used to blanket sensitive cargoes because:

A : All the mentioned alternatives

COHV : The tug has been released and is all clear. As officer in charge of that operation, should this be reported and to whom?

A : To the Master

COIV : Which of the following requirements regarding life-buoys do NOT correspond to present regulations? (SOLAS III/7.1)

A : All life-buoys shall be placed in holders with quick-release arrangement

COJV : The human body needs a certain vitamin to get the full benefit from the mineral iron. Which vitamin assists the absorption of iron?

A : Vitamin C

COJV : The human body needs a certain vitamin to get the full benefit from the mineral iron. Which vitamin helps in the absorption of iron?

A : Vitamin C

COKQ : For passenger ships of 1000 gross tons and over, the availability of water for fire-extinguisher purposes shall be: (SOLAS II-2/4.3.4)

A : Immediate availability of water for at least one effective jet of water from any hydrant in an interior area

CONW : During inspection of the cylinder cover from a medium speed diesel engine cylinder it is noted that cracks have occurred between the two exhaust valve pockets and the fuel injector pocket. Select from the given options the most probable cause of this type of failure.

A : Excessive thermal stress due to insufficient cooling of the cylinder cover.

CONY : A satellite receives the transmissions of the 406 MHz Cospas-Sarsat EPIRB. The transmissions of the EPIRB will be:

A : always passed on to a LUT



COOQ : The volume button of a mariphone controls:

A : the volume

COVL : On gas carriers there are two gases we must try to avoid leaking out to the atmosphere, who are those gases?

A : The two gases is Freon 22 and carbon monoxide

COYW : Fixed pressure water-spraying fire-extinguishing systems are widely employed in all kinds of vessels, mainly passenger ships and ro-ro ships, with a high degree of success. The aim of these systems is to put out a fire but they may also be very useful even if they only ensure

A : all the answers are good

CPAK : If a double banking operation is being conducted with one ship at anchor (which is yawing due to weather condition) and one tug is available for assisting in the operation, the tug should:

A : Endeavour to hold the anchored/yawing vessel steady

CPAK : If a double banking operation is being conducted with one ship at anchor (which is yawing due to weather conditions) and one tug is available for assisting in the operation, the tug should:

A : Endeavour to hold the anchored/yawing vessel steady

CPDR : What precautions should be taken for the deck covering in a steering gear room?

A : Any of the listed alternatives.

CPDR : What precautions should be taken for the deck covering in a steering gear room?

A : Coat the deck with non slip paint and use duck boards provided with drainage

CPDR : What precautions should be taken for the deck covering in a steering gear room where hydraulic oil is in use?

A : Coat the deck with non slip paint and use duck boards provided with drainage

CPDR : What precautions should be taken for the deck covering in a steering gear room where hydraulic oil is in use?

A : Any of the listed alternatives.

CPEC : On a RoRo vessel, what standing instruction should be given to protect the Ramps when loading ro-ro units?

A : Units whose weights exceed the ramp load density/SWL must not be loaded

CPEC : What standing instruction should be given when loading ro-ro units?

A : Units whose weights exceed the ramp load density must not be loaded



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

CPEQ : What is the meaning of the term "Range" of a transducer

A : The difference between possible maximum and minimum measurement

CPIF : You have just completed loading a cargo of Tallow. What special additional operational precautions will be immediately necessary and why?

A : Extended line clearing (blowing) will be needed because Tallow has a high melting point and residues may have built up in the cargo lines.

CPIF : You have just completed loading a cargo of Tallow. What special additional operational precautions will be necessary and why?

A : Extended line clearing (blowing) will be needed because the cargo is a high-viscosity grade and residues may have built up in the cargo lines.

CPIF : Your vessel is equipped with fixed rotating tank-cleaning machines in every tank. You have just finished cleaning, in preparation for loading a cargo which is water-sensitive. What should you do with the machines?

A : Ensure they are thoroughly drained down and blown through, using de-humidified air or nitrogen as applicable.

CPIY : Under what circumstances would a British ship have to have a new measurement survey

A : If any of the main registered particulars e.g. length were changed

CPKJ : By the degree of selectivity of a receiver is meant:

A : ability to make weak stations audible

CPLH : Pursuant to which Act are the Regulations of 25 November 1989 concerning supervision of maritime service laid down?

A : Act 18 June 1971 relating to enrolment of employees on board ships.

CPNV : The propagation of radio-signals in the VHF-band is:

A : almost rectilinear

CPPH : How many rescue boats should be provided on ro-ro passenger ships of 500 gross tons and above?

A : Two, and at least one of the rescue boats shall be a Fast Rescue Boat

CPQC : In preparing a reefer vessel for loading the next cargo a careful inspection of the cargo spaces should be carried out. All required maintenance and the repair of any damage identified during the inspection should be completed prior to loading. Select, from the options given, the most appropriate action to be taken when the maintenance and any repairs are completed.

A : Make a detailed record of all maintenance and repairs carried out for presentation to the supervisor at the loading port as proof that the vessel is in an acceptable condition for loading the

CPRY : Why are we using nitrogen for hold space and interbarrier space inertion?

A : Because the carbon dioxide in inert gas would freeze when in close proximity to the cargo.



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

CPRY : Why is nitrogen used for the inerting of hold spaces and interbarrier spaces on LNG carriers?

A : Because the carbon dioxide in combustion generated inert gas would freeze when in close proximity to the cargo.

CPSW : What is the full name of the International Convention dealing with stability of passenger ships?

A : The International Convention for the Safety of Life at Sea

CQDH : How are the membrane cargo containment systems that are frequently used on LNG carriers supported?

A : The membrane system is supported by the inner hull through the insulation.

CQDH : What is important on LNG carriers that have membrane primary containment systems?

A : There must always be a positive pressure in the tank pushing the membrane onto the insulation.

CQDW : What signal, if any, is specified in SOLAS as the "Abandon ship" signal?

A : The "Abandon ship" signal is not specified, only the general emergency alarm signal is stated

CQHR : Which institution gives regulations concerning certificates of competency for marine deck and engineer officers?

A : The Norwegian Maritime Directorate

CQIY : You have just completed your cargo watch on deck, during which you have been working around the manifold, connecting and disconnecting hoses, etc. It is lunch-time. Should you take any precautions before entering the messroom and why?

A : I will remove my overalls and work boots and wash my hands, to avoid the risk of introducing chemical contaminants into the accommodation.

CQIY : You have just completed your cargo watch on deck, during which you have been working around the manifold, connecting and disconnecting hoses, etc. It is meal-time. Should you take any precautions before entering the messroom and why?

A : I will remove my overalls and work boots and wash my hands, to avoid the risk of introducing chemical contaminants into the accommodation.

CQRE : What is the substance added to a dough mixture to make it rise, during the baking of bread?

A : Yeast.

CQRY : All necessary information for the next port of call should be:

A : Procured before departure from a port

CQUI : How often shall crew members participate in fire drills?

A : Once every month



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

CQXD : Where on board a RoRo ship will cargoes experience the greatest accelerations?

A : In the highest stowage positions to each side of the ship

CQXD : Where on board a ship will cargoes experience the greatest accelerations?

A : In the highest stowage positions to each side of the ship

CQXU : Sounding pipes in the engine room are normally fitted with deadweight cocks and screw caps. Which of the following statements is correct?

A : Caps and cocks should be closed at all times, except when sounding tanks, to prevent

CQXU : Sounding pipes in the engine room are normally fitted with deadweight cocks and screw caps. Which of the following statements is correct?

A : Caps and cocks should be closed at all times, to prevent ingress of water into the engine room in case of tank bottom damage.

CQYK : On the figure 4 possible definitions of the term "LENGHT OVERALL" are given. Which one is the correct one?

A : Lenght overall is given by B on the figure

CRBD : If a distress signal is received on board your ship, what should be the first action that should be taken?

A : all of the alternatives together

CRBD : If a distress signal is received on board your ship, what should be the first thing you should do ?

A : all of the alternatives together

CRBD : If a distress signal is received on board your ship, what would you do ?

A : all of the alternatives together

CRBQ : Special types of periscopes are fitted to boilers to observe

A : Smoke going out the stack

CRCR : The VHF channels 15 and 17:

A : is intended for radio traffic onboard of the own ship

CRIL : Which one of the listed requirements regarding the construction of lifeboats do not correspond to present regulations? The lifeboat shall:

A : have permanent boarding arrangements on both sides to enable persons in the water to board the lifeboat



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

CRKB : What must be ensured when using portable slopes to discharge ro-ro units?

A : They must be exactly aligned with the units' tyres

CRKB : What must you ensure when using portable slopes to discharge ro-ro units?

A : They must be exactly aligned with the units' tyres

CRKN : When would gassing-up of cargo tanks on an LNG carrier normally be necessary?

A : To remove inert gas or nitrogen from the cargo tank atmosphere.

CRKY : When checking the zero point on a combustible gas indicator that is to be used to detect hydrocarbon gases in an empty cargo tank which method should be used from the options given?

A : Pass fresh air through the sample chamber.

CRQB : Epoxy coatings in tanks, which have been stressed beyond their chemical resistance during the carriage of strong solvents, tend to soften (you test for this with your nails or with standardised test pencils). If you encounter this condition you would:

A : Give the coating time to "weather out" the trapped solvents using good ventilation, and recover it's hardness again, prior loading the next cargo?

CRQT : Which device does this graphical symbol illustrate?

A : Pressure to electric current converter.

CRRP : Which of the following is the definition of "Segregated Ballast Tanks", as found on oil tankers?

A : Check the ballast tanks for oil after the ballast tanks have been filled

CRRP : Which of the following is the definition of Segregated Ballast Tanks, as found on oil tankers?

A : Check the ballast tanks for oil after the ballast tanks have been filled

CRSK : What does the word "pirates" mean?

A : Pirates are persons who attempt to board and take over a ship at sea

CRSK : Where do ships encounter pirates?

A : Ships encounter pirates off West Africa

CR TJ : In the Maritime Radio Traffic the order of priority is:

A : Distress traffic, urgency traffic, safety traffic



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

CRTM : What is the date of construction for a ship carrying liquefied gas to which the 1993, amended version of the IGC Code will apply?

A : Ships constructed on or after 1st October 1994.

CRTM : What is the date of construction for a ship carrying liquefied gas to which the 1993 version of the IGC Code, as amended in 1994 and 1996, will apply?

A : Ships constructed on or after 1st July 1998.

CRTM : Which ships shall apply to the amended version of the IGC Code?

A : Ships constructed on or after 1st July 1994.

CRUE : Which one of the listed requirements regarding lifeboat equipment do not correspond to present regulations? All lifeboat equipment shall:

A : be made of fire-retardant material

CSBK : What is the purpose of the "forcing vaporizer"?

A : To provide gas for burning in the boiler.

CSBK : What is the purpose of the "forcing vaporizer" found in some LNG carrier cargo plants?

A : To provide gas for burning in the boiler.

CSFC : Which class of emission is used for ARQ NBDP transmissions ?

A : F1B

CSGF : On a RoRo vessel, to what should you pay very close attention, when inspecting the structure and condition of movable car decks?

A : Cracks in way of deck supports

CSGF : To what should you pay very close attention, when inspecting portable car decks?

A : Cracks in way of deck supports

CSGF : What requires close attention during portable car deck inspections?

A : Signs of cracks in way of deck supports

CSGX : The INMARSAT M Mobile Earth Station Identification Number (IMN) consists of:

A : nine digits, beginning by 6



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

CSIO : On a RoRo vessel, what is Safe Working Load (SWL) with regard to cargo lashings?

A : The maximum load that can safely be applied to lashings

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A : The maximum load that can safely be applied to lashings

CSMC : A cable has a resistance of 100 milli-ohms. It supplies a 300A load over a distance of 100 metres. What is the voltage drop along its length?

A : 30 volts

CSMC : A cable has a resistance of 1 milli-ohm per metre. It supplies a 300A load over a distance of 100 metres. What is the voltage drop along its length?

A : 30 volts

CSMC : A cable has a resistance of 1 milli-ohm per metre. It supplies a 300A load over a distance of 50 metres. What is the voltage drop along its length?

A : 15 volts

CSOC : At sea red rocket signals are seen. This is not reported by radio. You have to begin the distress alert procedure via VHF with the term:

A : MAYDAY RELAY

CSOE : During standstill liquid may condense in the crankcase or oil separator. Why is it important to heat up the oil before start?

A : To avoid the compressor-oil to disappear from the crankcase during starting.

CSUE : Whenever ro-ro/car decks are unattended the following applies:

A : Fire detection systems should be switched on, Deck and engine crew should be trained in the use of the drencher systems and their operation, Continuous monitoring of ro-ro/car decks by Closed C

CSVA : One of the categories of information that must be included in your SSP is:

A : Security arrangements

CTCN : How do You want to operate the purifier to obtain the best separation result?

A : Separation with correct temperature and low flow rate.

CTDH : It is very important to follow a maintenance schedule. Why?

A : To prevent serious damages on main components.



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

CTJG : Which one of the listed requirements regarding the stowage of rescue boats do not correspond to present regulations? (SOLAS III/14)

A : Rescue boats shall be stowed attached to launching appliances

CTLR : You want to stop your ship as quickly as possible without too much change in the heading. What can you do to achieve this?

A : Use the rudder hard over both sides while reducing engine power, so-called "high frequency rudder cycling"

CTRN : The purpose of profiling is to?

A : Get beneath the outer shell of an individual to obtain a more complete picture.

CTSK : On a bulk carrier at the completion of loading and before closing hatch covers what must be done to track ways?

A : Track ways swept and checked clear of obstructions

CTTE : Indicate the correct name for the part marked on the sketch:

A : Crankshaft

CUAR : Why are crankcase heaters fitted to freon compressors?

A : To prevent freon condensing when the compressor is stopped.

CUAR : Why are crankcase heaters fitted to some refrigeration system compressors?

A : To prevent freon condensing when the compressor is stopped.

CUBK : What are the components of the personal equipment of the firemans outfit

A : All the items mentioned

CUBV : What type of cargo tanks are almost exclusively applied to LNG ships?

A : Type "B" spherical tanks.

CUBV : Which type of cargo tanks are almost exclusively applied to LNG ships and are rarely fitted to LPG ships?

A : Type "B" spherical tanks.

CUCF : How do you consider the indicated speed for berthing?

A : Too fast



CUCF : How do you consider the indicated speed for berthing?

A : - The approach speed is too fast. "I

CUCG : Where would you find out which fire sections are enclosed by "A" or "B" class divisions?

A : On the fire control plans

CUCG : Where would you find out which fire sections are enclosed by "A" or "B" class divisions on a ship?

A : On the fire control plans

CUCJ : This circuit consists of two resistances, $R_1 = 6 \text{ ohm}$ and $R_2 = 12 \text{ ohm}$, connected in series. Calculate the equivalent resistance $R(S)$.

A : $R(S) = 18 \text{ ohm}$

CUCJ : This circuit consists of two resistances, $R_1 = 6 \text{ ohm}$ and $R_2 = 12 \text{ ohm}$, connected in series. Calculate the equivalent resistance $R(S)$ of the two resistances.

A : $R(S) = 18 \text{ ohm}$

CUCF : On a container vessel, why would it be difficult to extinguish a fire in a container containing chemicals?

A : Because heat is often produced due to chemical reactions within the cargo

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CUCF : A transformer with 10:1 turns ratio and rated 44 kVA, 440/220 Volts, 60 Hz, is used to step down the voltage to a distribution system. The low tension voltage is to be kept constant at 240 Volts. What load impedance connected to the low-tension side will cause the transformer to be fully loaded?

A : 1.15 Ohms

CUCF : A transformer with 10:1 turns ratio and rated 50 kVA, 2400/240 Volts, 60 Hz, is used to step down the voltage to a distribution system. The low tension voltage is to be kept constant at 240 Volts. What load impedance connected to the low-tension side will cause the transformer to be fully loaded?

A : 1.15 Ohms

CUGH : At the design phase of a container ship, how is the loss of strength resulting from the large deck openings, compensated?

A : Large deck beams longitudinally and athwartships at the sides and ends of hatches



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

CUGH : With respect to automatic heeling tanks which of the following is not likely to flood a cargo hold?

A : Overall system failure

CUMO : Liquid nitrogen systems and cylinder storage are common on board methods of nitrogen supply for chemical tankers. Which of the following may also be found?

A : Membrane or Pressure-Swing Adsorption generators.

CUMO : What are the common types of independent nitrogen generator found on chemical tankers?

A : membrane and

CUVR : How much sugar in a cargo of cement would render the cement worthless?

A : 0.00%

CUVR : When loading a bulk cargo of cement the specific gravity and flow characteristics are dependant on what criteria?

A : The volume of air in the cargo

CUYC : Generally vertical mounted pumps are used in ship engine rooms. Is it because of:

A : Floor space is usually more valuable than height.

CUYL : What is the main purpose of the reliquefaction plant fitted to many liquefied gas carriers?

A : It is used to change the cargo vapour back to liquid keep the cargo cooled.

CVAP : What should be applicable to tank cleaning operations by means of circulation products with low flash products (below 60° C) ?

A : It should be avoided, unless the tank atmosphere is inerted.

CVNA : Which of the following spaces may be protected by a fixed high expansion foam fire-extinguishing system?

A : All the spaces mentioned

CVOV : What is the gas releasing device allowed for a CO2 fixed fire-extinguishing installation?

A : A manually operated release system only

CVSM : Some fresh shrimps have been peeled ready for serving and some salad leaves have been washed ready for the same meal. The meal will not be served for another four hours. What will you do with these ingredients in the meantime?

A : The shrimps and the salad will be placed in separate containers, covered and placed in the refrigerator until required.



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

CVSM : Some fresh shrimps have been peeled ready for serving; some salad leaves have been washed ready for the same meal. The meal will not be served for another four hours. What will you do with these ingredients in the meantime?

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A : The shrimps and the salad will be placed in separate containers, covered and placed in the refrigerator until required.

CVTQ : When steering by autopilot, how often should manual steering be checked?

A : At least once a watch

CVTV : When data are to be transferred over a telephone line, we often utilize modem at each end. Which of the following adapter cards (parts) will you use for interfacing a modem to a computer?

A : Serial adapter

CVTV : When data are to be transferred over telephone lines, we often utilize modem at each end. Which of the following adapter cards (parts) will you use for interfacing a modem to a computer?

A : Serial adapter

CVXD : An electrical power emergency source in a ship is required because:

A : It satisfies the SOLAS (and other) requirements for ship safety

CVXD : An electrical power emergency source in a ship is required because:

A : It satisfies the SOLAS requirements for ship safety

CVXG : Failed O-rings on a 2 stage air compressor cylinder liner have resulted in a water leak. Where is the leaking water most likely to go when the compressor is operating?

A : Into the crankcase and mix with the lube oil.

CVXY : Two vessels are meeting each other in confined waters. What would be the effects of interaction between the two vessels as they approach each other?

A : The bows of the ships will be pushed away from each other

CVYY : What is a PH scale?

A : Method to measure alkalinity and acidity.



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

CWBD : How would you know how many people a lifeboat is supposed to hold?

A : The number of persons should be clearly stated on the outside of the boats bow.

CWEU : What is the objective of the merchant navy?

A : To safely transport goods by sea

CWGL : What do the shapes that this vessel is displaying tell us about here?

A : That she is not under command and not making way through the water. She is seen head-on, but we do not know her length.

CWIL : Which publication gives guidance on the stowage and securing of general cargo?

A : IMO Code of practice for stowage and securing of cargoes

CWNV : You have a cargo of Lube Oil Additive in tank 6 Centre. Which of the following will happen if heating is applied and the temperature increases?

A : It will expand - its volume will increase.

CWNW : Why do many engine makers recommend to grind the valve spindle sealing surface with a half degree difference to the valve seat?

A : To improve the sealing surface between valve and seat during operation of the engine (compensate for the bending of the valve disc caused by combustion pressure)

CWQO : The Chloride level in a cooling water system should be:

A : As low as possible.

CWQN : Air bags (dunnage bags) are widely used for securing palletised refrigerated cargoes. In the case of a fruit cargo, which of the given options should the user be aware of?

A : Over inflation can crush and damage the soft tissue of the fruit.

CWTB : What is shown in the attached image?

A : The attached image shows grabs attached to deck cranes, during cargo operations

CWTB : What is shown in the picture, a crane or a derrick using what loading gear?

A : A deck crane using grabs.

CWTR : Cleaning has certain safety aspects, among other things which?

A : Fire is easily spread in dust and trash and wet floors may cause different accidents.



CWTT : The rule for having a radio transmitter license is internationally laid down in:

A : Radio Regulations

CWVH : What is the procedure when connecting portable cleaning machines :

A : Connect to the hydrant before lowering the machine into the tank.

CWWY : Which body can carry out surveys on behalf of the MCA?

A : MCA, Lloyds Register, Bureau Veritas, Det Norske Veritas, American Bureau of Shipping, Germanischer Lloyd, Registro Italiano Navale

CXDQ : Why are crankcase heaters fitted to freon compressors?

A : To prevent freon condensing when the compressor is stopped.

CXJR : Why does a ship move laterally (sideward drift) when turning.

A : Because the pivot point is not at the centre of the ship

CXLL : How many rocket parachute flares are carried in each lifeboat?

A : 4

CXLU : What is 'Allowable Use Strength'?

A : The tension to which cargo lashings should be set up

CXLU : What is 'Allowable Use Strength', with regard to cargo lashings?

A : The tension to which cargo lashings should be applied

CXMC : The responsibility for safety and security rests with everybody on board the vessel. General house-keeping rules should be followed. Which of the listed rules is the most important?

A : Do not use loose garments, belts, ties or scarfs near winches and moving machinery.

CXSS : Your vessel is going alongside a pier. Two tugs will assist at the mooring. How would you use the tugs, and at which position?

A : Pushing on ship's flat side and make fast in the vessel for pulling if needed

CXSS : Your vessel is going alongside a pier. Two tugs will assist at the mooring. How would you use the tugs, and at which position?

A : Pushing on the ship's side and made fast in case the vessel's movement towards the berth requires reducing by the tug pulling off.



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

CXSS : Your vessel is going alongside a pier. Two tugs will assist at the mooring. Which position and how do you want to use the tugs?

A : Pushing on ship's flat side and make fast in the vessel for pulling if needed

CXSS : Your vessel is going alongside a pier. Two tugs will assist at the mooring. Which position and how do you want to use the tugs?

A : Pushing on the ship's side and made fast in case the vessel's movement towards the berth requires reducing by the tug pulling off.

CXXR : What data is at least requested in a DSC "distress alert" ?

A : the identification of the vessel in distress and her position

CYEP : Which one of the given requirements regarding survival craft muster and embarkation arrangements corresponds to the present SOLAS regulations?

A : Muster and embarkation stations shall be readily accessible from accommodation and work areas.

CYGF : Which of the following is a requirement on an oil tanker before entering any enclosed area containing inert gas generating equipment?

A : The atmosphere should be gas free and contain at least 21% oxygen.

CYGF : Which of the following is a requirement on an oil tanker before personnel enter any enclosed area containing inert gas generating equipment?

A : The atmosphere should be gas free and contain at least 21% oxygen.

CYGF : Which of the following is a requirement on an oil tanker before personnel enter any enclosed area which contains inert gas generating equipment?

A : The atmosphere should be gas free and contain at least 21% oxygen.

CYGG : What separation temperature is recommended for lubricating oil of a trunk piston engine operating on HFO

A : 95 Celsius

CYHA : In a purifier assuming the separating temperature is correct, what is probably wrong if processed oil contains water

A : Gravity disc is too small. Flow rate is too high

CYHA : In a purifier assuming the separating temperature is correct, what is probably wrong if processed oil contains water

A : The gravity disc is too small and/or the flow rate is too high

CYHA : In a purifier assuming the separating temperature is correct, what is the probable cause of the processed oil containing water?

A : The gravity disc is too small and/or the flow rate is too high



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

CYHA : In a purifier assuming the separating temperature is correct, what is the probable cause of the processed oil containing water?

A : Gravity disc is too small. Flow rate is too high

CYJI : The main reason for the use of cylinder oil is to:

A : Lubricate the piston rings.

CYKL : After cleaning any equipment using gas oil/diesel then using compressed air from the ships service air supply to blow the oily residues from the equipment, should you:

A : Cover all exposed parts of the body, protect the area, move people and if possible use a compartment with extraction fans:

CYPJ : Use of LNG as fuel. The gas fuel line should be a double wall piping system. The space between the concentric pipes should be pressurized with inert gas. What is the required inert gas pressure?

A : Pressure greater than the fuel pressure.

CYPJ : When LNG is used as fuel a double wall piping system must be used in the engine room. What condition should the annular space between the concentric pipes be maintained in when the fuel system is in service?

A : Filled with nitrogen at a pressure greater than the LNG fuel pressure.

CYVA : Generally vertical mounted pumps are used in ship engine rooms. Is it because of:

A : Floor space is usually more valuable than height.

CYU : When first using cleaning agent in the machinery space, the crew should:

A : Confirm that it wont form an emulsion

DABD : A distress-call, onboard via RCC, may only be given Receipt if:

A : the O.O.W deems it necessary

DABI : Which of the following kinds of fish is least perishable in cold storage?

A : Mackerel

DADR : What could be the reason if the lub oil viscosity increase?

A : Fuel oil leakage into the lub oil system

DADR : What could be the reason if the lub oil viscosity increase?

A : Heavy fuel oil leakage to the lub oil system.



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

DADV : What quantity of service fuel must be available for a diesel driven emergency pump before it is necessary to use any reserve fuel?

A : To allow at least 3 hours of operation

DAKP : Severe piston ring and liner wear are experienced in two cylinders of a medium speed diesel engine shortly after a complete overhaul of all of the cylinders of the engine. The engine is fitted throughout with chrome plated cylinder liners. Which of the given options is the most likely cause of the excessive wear in the two cylinders?

A : Chrome plated piston rings have been mistakenly fitted to the two cylinders.

DAMK : On a Container vessel, what is the function of a lashing plate?

A : As tie down point for turnbuckles on deck or hatch cover

DAOL : What happens when double bottom tanks are completely filled on partly laden general cargo vessels?

A : There is insufficient propeller immersion and a low GM

DAOL : What is difficult to attain on a partly loaded general cargo vessel?

A : Sufficient propeller immersion and a comfortable GM

DAOT : Where is the "PORT QUARTER", in the figure?

A : The Port quarter is D, in the figure

DAPI : What is the general emergency alarm signal as specified in SOLAS?

A : Seven or more short blasts followed by one long blast

DAQE : How many buoyant smoke signals are carried in each lifeboat?

A : 2

DAVJ : In a Type "1" Chemical tanker (one that is certified to carry the most hazardous chemicals) the maximum amount of cargo contained in any one tank must not exceed:

A : 1250 m³

DAWD : The training manual shall contain instructions and information in easily understood terms and illustrated wherever possible. Which of the following objects do not have to be explained in detail in the manual according to present regulations?

A : Donning of fire protection clothing

DAXB : A pilot ladder shall, to prevent twisting, be fitted with battens. The lowest batten shall be the 5th step from the lower end of the pilot ladder. At what intervals should there be further battens upwards on the pilot ladder?

A : At intervals not exceeding 9 steps.



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

DAYP : When cross-flooding arrangements to correct unsymmetrical flooding and excessive heel angles in damaged condition are installed in passenger ships, what is the maximum time allowed for equalization?

A : 15 minutes

DBBK : What is the minimum capacity of the portable tank of a portable foam applicator ?

A : 1 litre

DBDH : What is the purpose of having corrugations in the bulkheads in the cargo tanks of an oil tanker?

A : To provide strength, but with clean, clear surfaces within the tank.

DBDH : What is the purpose of the girders in the tank?

A : They support the stiffeners and also take up some of the sea force.

DBOR : Which one of the following items has to be included in an abandon ship drill?

A : summoning of passengers and crew to muster stations with the alarm required

DBRD : In the chemical trade the acceptable means of cargo line segregation in case of two non-compatible products is:

A : By double blank flanges with a drain between them?

DBRU : On a General Cargo ship in the United States, what will be the consequences of a ships failure to correct an unsafe stevedore working practice?

A : The ship will be prosecuted

DBRU : What will be the consequences of a ship's failure to correct an unsafe stevedore working practice in the United States?

A : The ship will be prosecuted

DBRX : When there is a need to interrupt current flow in a high voltage system it may be very difficult to quench the electrical arc which is generated at the circuit breaker contacts. Which of the following arcing media is commonly found in high voltage marine switchgear?

A : Vacuum

DBRX : Which of the following arcing media is commonly found in high voltage marine switchgear?

A : Vacuum

DBSU : On the figure there are four (4) possible definitions of the term "BOLLARD" given. Which one is the correct one?

A : Bollard is given by D on the figure



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

DBUF : How many thermal protective aids are carried in each liferaft?

A : 10% of the number of persons the liferaft is designed to carry, or two, whichever is the greatest

DBVJ : A heavy metal concentrate bulk cargo has a moisture content of 16 and a transportable moisture limit of 18, what should the Master do?

A : Load the cargo as the moisture content is within acceptable limits

DBWC : MARPOL 73/78 - Annex IV. Your ship has in operation an approved sewage treatment plant certified by the Administration. During discharge, while vessel is awaiting pilot off Cape Henry, USA, the surrounding water is discoloured. What kind of action would be appropriate to take?

A : Stop discharge.

DBXA : In the event of a severe scavenge fire, which of the following is most likely to be seriously damaged?

A : Stuffing box.

DBXA : In the event of a severe scavenge fire, which of the following is most likely to be seriously damaged?

A : Piston rod and stuffing box.

DCAJ : Which of the following statements is correct

A : The dispersing additives in lubricating oil, break up the contaminants in even smaller particles and keep them in suspension

DCCQ : What type of dynamic forces may cause indent in plating on forecastle deck and main deck in way of pillars inside forecastle?

A : Pressure forces caused by green water on deck

DCCU : Why is cotton the most suitable material for galley work clothes?

A : It is absorbant, hard-wearing, comfortable and can withstand frequent laundering at high temperatures.

DCDJ : Ballast introduced into a cargo tank on a chemical tanker which has been washed to such an extent that the ballast contains less than 1 ppm of the substance previously carried may be discharged into the sea without regard to the discharge rate, ships speed and discharge outlet location, but under certain conditions. What are those conditions?

A : That the vessel is not less than 12 miles from the nearest land and is in water that is not less than 25 metres deep.

DCDJ : Ballast introduced into a cargo tank which has been washed to such an extent that the ballast contains less than 1 ppm of the substance previously carried may be discharged into the sea without regard to the discharge rate, ships speed and discharge outlet location, but under certain conditions. What are those conditions?

A : That the vessel is not less than 12 miles from the nearest land and is in water that is not less than 25 metres deep.

DCJM : Give the meaning of the following symbol

A : Space protected by foam



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

DCKH : During ship to ship transfer, if each hose used has a bore size (diameter) of 300 mm, the throughput per hour of liquid (for each hose) is recommended as a maximum of:

A : 3150 m³ per hour.

DCLB : It is possible to successfully mix certain types of refrigerated cargo in the same space if they are compatible. Sometimes apparently dissimilar cargoes can be successfully mixed. Which one of the combinations given in the options could be successfully carried as a mixed cargo in the same cargo space?

A : Oranges and apples.

DCLC : What is the correct definition of "gangway"?

A : Portable bridge between ship and shore.

DCLC : What is the correct definition of: -gangway?

A : Portable bridge between ship and shore.

DCON : Ship staff shall inspect all lifting equipment and record the inspection in the cargo gear record book at intervals of:

A : Yearly

DCQB : On the figure there are four possible definitions of the term "STARBOARD BOW" given. Which one is the correct one?

A : Starboard bow is given by A on the figure

DCQC : Give the meaning of the following symbol:

A : muster station

DCQD : Some engine makers use a copper casket for proper sealing between fuel injector valve, cylinder head and combustion chamber. Why is it so important to use the correct one?

A : To keep the valve in correct position and to maintain proper sealing.

DCLSL : What is the correct understanding of the term "a ship with good Directional Stability"?

A : When you put rudder amidships, she will continue on a straight course

DCCSN : To whom does the requirement as to knowledge of English apply?

A : Seafarers employed or engaged on board ship on the business of that ship as part of the ship's complement with designated safety or pollution duties

DCVC : If fax messages or data messages are sent from and to an Inmarsat-A terminal it is recommended to use:

A : unexpanded channels



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

DCXP : When starting a flue gas plant on an oil tanker and after all initial checks have proved satisfactory, which of the following steps will be the first in the operation sequence?

A : Open the flue gas isolating valve

DCXP : When starting a flue gas plant, which of these steps shall be executed first?

A : Open the flue gas isolating valve

DDCX : What is the requirement with regard to Familiarisation on board?

A : Seafarers, on being assigned to any ship, shall be familiarized with their specific duties and with all ship arrangements, installations, equipment, procedures and ship characteristics that are

DDGB : Which one of the listed requirements regarding radiotelegraph installations do not correspond to present regulations?

A : The installation shall include equipment for radiotelephone communication on distress frequencies in addition to working frequencies

DDGU : An engine room rating notices that the guard on a running pump is hanging loose due to a missing bolt on the support bracket and it is catching the shaft coupling. What is the best action to take as a repair method?

A : Inform the watchkeeper so that the pump can be stopped and a new bolt can be fitted to permanently fix the guard in place.

DDIQ : A lifejacket must not sustain burning or continue melting after being totally enveloped in a fire for a period of:

A : 2 sec

DDKL : On a RoRo vessel, where can you find the validity of web lashings

A : On the certificate supplied with the equipment

DDKL : What is the usual validity of 2T SWL lashing belts?

A : 10 years

DDMT : Which one of the listed requirements regarding partially enclosed lifeboats do not correspond to present regulations? The canopy between rigid covers shall be so arranged that:

A : it has windows to admit sufficient daylight inside the lifeboat with the canopy closed

DDNQ : What action would you take if the performance of a plate type heat exchanger was falling off even though flow rates and pressures of the primary and secondary fluids were normal?

A : Clean the heat exchanger.

DDNQ : What action would you take if the performance of a plate type heat exchanger was falling off even though flow rates and pressures of the primary and secondary fluids were normal?

A : Use the "cleaning in place" arrangement to open the heat exchanger for visual inspection and manual cleaning.



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

DDTI : Regular 'updating' of a vessel's position in an Inmarsat-C installation is among other things of importance:

A : to exclusively receive MSI-reports meant for the NAVAREA where the vessel is

DDTR : What are the basic cargo stowage requirements for a small consignment of household cleaning products when loaded on a General Cargo Vessel?

A : Stow away from foodstuffs

DDUE : For which of the following are open/closed bridge indicators not required?

A : Doors leading into the engine room

DDUE : On the bridge of a RoRo vessel, which of the following doors have no open/closed bridge indicator requirements?

A : Doors leading into the engine room

DDUU : When discharging dirty ballast from an oil tanker at a high flow rate with main cargo pumps, the limiting factor on permitted overboard discharge is the instantaneous rate of discharge of oil. Which of the following formulae is used to calculate this rate?

A : Instantaneous rate of discharge (l/nm) = oil content (ppm) x flow rate (m³/h) / speed (knots) x 1,000

DECL : Generators work on the principle of electromagnetic induction. The internal e.m.f. generated in the phase windings of an a.c. generator is controlled by :

A : The diesel speed and excitation current.

DECM : You are in charge of loading a product tanker equipped with segregated ballast tanks, SBT. How can you find out if there is a leakage between the cargo and ballast system?

A : Check the cargo tanks for water prior to loading

DEIL : On a RoRo vessel, which of the ships trading certificates details the type and location that dangerous goods are allowed to be stowed onboard

A : Certificate of compliance for the carriage of Dangerous goods

DEIL : What are 'Special Category Spaces'?

A : Enclosed vehicle spaces above and below the bulkhead deck

DEJE : International regulations require that a minimum pressure of Inert Gas is maintained at all times in slop tanks if slops are retained onboard an oil tanker. Which of the following is that minimum requirement?

A : 100 mm/water gauge.

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A : 100 mm/water gauge.



DENE : What is essential with liquefied gas fires

A : To isolate the fuel source before extinguishing the flames on a gas fire

DERP : What kind of measure is the division of the vessel in upright areas by using thermic and structural separations?

A : It is both a prevention and protection measure

DEVQ : What is the most common fixed fire fighting extinguishing system fitted in an engine room?

A : A carbon dioxide (CO₂) system

DFCK : You have loaded a cargo of n-Propyl Acetate to all tanks. They are each loaded to around 98% capacity. You now have to clear the lines into the ship. What is the biggest risk associated with this operation?

A : There must always be one man on the ship's manifold, operating the manifold valve in order to avoid too much pressure raise in the tank.

DFCK : You have loaded a cargo of n-Propyl Acetate to all tanks. They are each loaded to around 98% capacity. You now have to clear the lines into the ship. What is the principal risk in this operation?

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DFDF : Where are cargo hold water level detectors required to be fitted?

A : At the after end of each cargo hold

DFDF : Where are cargo hold water level detectors required to be fitted on bulk carriers?

A : At the after end of each cargo hold

DFDF : Where are cargo hold water level detectors required to be fitted, on bulk carriers?

A : At the after end of each cargo hold

DFDI : When you join a new ship, how are you informed about safety rules, alarm instructions and your own duties in case of an emergency?

A : By muster lists exhibited in conspicuous places

DFHM : This circuit symbol is an amplifier system and its frequency response diagram. Which control function is the system performing?

A : Proportional + integral (PI)

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A : Proportional + integral (PI)



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

DFLS : A DSC distress alert is received. The message states that communication by radiotelex is preferred. One preferably uses:

A : FEC mode

DFMI : A chemical tanker will carry cargoes of ethanolamine, methyl acrylate, and glycerine. Which statement is true?

A : Glycerine is compatible with both of the other cargoes.

DFMN : What characteristics of Seed Cake group B (IMDG Class 4.2) cargo should be considered when carrying in bulk?

A : Cargo may self-heat slowly; may spontaneously ignite; liable to oxidise; may produce carbon dioxide

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A : Cargo may self-heat slowly; may spontaneously ignite; liable to oxidise; may produce carbon dioxide

DFPW : What are cargo residues considered as under MARPOL 73/78?

A : Garbage

DFPX : A fire bulkhead of the "C" class must be constructed of:

A : Non-combustible material

DFQS : You are testing the atmosphere in a cargo tank on an oil tanker, for the purpose of approving it as safe it for crew members to enter at the end of tank cleaning operations. According to the industry standard guidelines (ISGOTT), what measurements must be obtained before this permission is granted?

A : 21% oxygen by volume and 0% hydrocarbon of LEL.

DFRX : A bulk carrier is to carry a full deck cargo of packaged timber; to what regulations must the vessel comply?

A : IMO Code of Practice for the carriage of Timber Deck cargoes

DFSN : Which of the following is allowed as a fire-extinguishing medium for fixed gas fire-extinguishing systems aboard ships?

A : Carbon dioxide

DFTX : On a RoRo vessel, if the Manufacturer and shipper of a vehicle have not provided instructions and the vehicle does not have fixed lashing points what can be used to secure the lashings

A : 45% of the total volume of the space

DFXE : Which type of temperature sensor is used in this temperature measuring system?

A : Thermocouple sensor



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

DFXE : Which type of temperature sensor is used in this temperature measuring system shown?

A : Thermocouple sensor

DFXG : In a PID controller it is possible to change the setting of the Proportional band (P), the Reset time (I) and the Rate time (D). Please indicate which curve shows the typical response to a step input, if the variables are well adjusted.

A : Figure 2.

DFXG : In a PID controller it is possible to change the setting of the Proportional band (P), the Reset time (I) and the Rate time (D). Please indicate which curve shows the typical response to change in input, if the setting of the rate time is too short.

A : Figure 2.

DFYB : What are the three diameters of fire hoses most commonly found on ships?

A : 25, 45, or 70 mm

DFYE : What are the advantages of having mooring wires stowed on self-stowing "split drum" winches?

A : All the listed alternatives

DFYJ : You are on board a ship which is not specially fitted for navigation in cold regions. At what ambient temperature should the engine of the lifeboat *start within less than 2 minutes ?

A : until - 15°C

DGGM : What are the characteristics of CO₂?

A : All the mentioned alternatives.

DGGO : On a General Cargo Vessel, what must be done if a crane or derrick block sheave is found to be worn?

A : Inform Chief Officer and prepare to change block if required

DGII : What is the meaning of this symbol ?

A : Lower lifeboat to water

DGKR : Indicate the correct name for the tool on the sketch:

A : Adjustable wrench

DGLL : The boiler has been shut down completely for inspection and repair. You have finished work and are going to start firing the boiler. What is the correct procedure for heating a boiler from cold?

A : Start with intermittent firing, using small firing periods and long intervals gradually building up to longer firing periods and shorter intervals.



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

DGRI : How many two-way VHF's is required for ships over 500 brutto?

A : 3 sets

DGRI : How many two-way VHF's is required for ships over 500 GRT?

A : 3 sets

DGRL : Your vessel is moving in Panama Canal waters. When must the master or his qualified representative be on the bridge?

A : At all times

DGRN : An earth fault exists on the blue line of a 100 A bilge pump circuit. A second earth fault occurs on the yellow line of a 10 A ventilation fan circuit. Both systems are supplied from the ship's 440V supply. The likely outcome is that:

A : A short circuit occurs between earth faults and the ventilation fan fuse blows

DGRN : An earth fault exists on the blue line of a 100 A bilge pump circuit. A second earth fault occurs on the yellow line of a 10 A ventilation fan circuit. The likely outcome is that:

A : A short circuit occurs between earth faults and the ventilation fan fuse blows

DGTB : Which one of the listed requirements regarding buoyant smoke signals do not correspond to present regulations? The buoyant smoke signal shall:

A : give a bright red light during the entire emission time

DGTC : What is an effective means of measuring the total dissolved solids in boiler water?

A : Conductivity test.

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A : Conductivity test.

DGTV : What signal may be given by sound and by light to indicate that a vessel fails to understand the intentions or actions of another vessel, or is in doubt that sufficient action is being taken by the other to avoid collision?

A : Two prolonged blasts on the whistle at intervals of not more than two minutes

DGXC : The muster list shall show the duties assigned to the different members of the crew. Which of the given duties do not necessarily have to be included in the muster list?

A : Clearing escape routes

DGXC : The muster list shall show the duties assigned to the different members of the crew. Which of the given duties necessarily have to be included in the muster list?

A : Clearing escape routes



DGXD : What does LEL mean?

A : Lower explosive limit.

DGXM : Which type of call will be sent by a ship sighting containers adrift in vicinity of her position ? (No message about this problem was previously transmitted via NAVTEX or INMARSAT C S A F E T Y N E T)

A : Safety call

DHIB : When ordering foam for restocking of the foam tanks on a Chemical Tanker, and regular protein foam is offered, you would:

A : Reject it?

DHJB : Two alternators operating in parallel at 75% load capacity, but then one of them trips without any warning. What is the first action that should be taken?

A : Trip/stop all nonessential loads that are connected to the switchboard

DHKT : Which of following items shall be included in an abandon ship drill?

A : summoning of passengers and crew to muster stations with the alarm required

DHMG : How should the hook be released from a davit lowered liferaft?

A : Just prior to reaching the water, the lanyard should be pulled. This sets the hook which will automatically release once the raft is waterborne

DHNG : The picture shows a common used 3,5 inches diskette type for storing data. What is the data storing capacity for such diskette?

A : 1.44 MB

DHPR : On the figure there are four (4) possible definitions of the term "STARBOARD QUARTER" given. Which one is the correct one?

A : Starboard quarter is given by C on the figure

DHPU : Which one of the listed requirements regarding "week links" for float free arrangements for liferafts do not correspond to present regulations? Week links shall:

A : release the liferaft at a depth of not more than 4 metres

DHRJ : A steward reaches into a sink filled with soapy water to remove the plug. He cuts his hand on a carving knife lying in the bottom. What policy will best eliminate the chance of this kind of accident happening again while maintaining hygiene standards?

A : Every member of the galley staff is made responsible for washing their own knives.

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CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

DHSC : The temperature of a refrigerated cargo is controlled by the temperature of the air being blown through the cargo hold which is often referred to as the DAT. What does the term DAT stand for?

A : Delivery Air Temperature.

DHUV : Which item among those below is included in the normal equipment of every rescue boat ?

A : a painter attached to the release device and placed at the forward end of the boat

DIAA : The term "viscosity" is commonly used when discussing liquid chemicals. What is "Viscosity"?

A : The property of a liquid which determines its resistance to flow.

DIAA : What is "Viscosity"?

A : The property of a liquid which determines its resistance to flow.

DIBK : What necessary precautions should be taken before entering a tank or an enclosed space?

A : Make sure that the tank/ enclosed space is gas free, ventilated and the oxygen content is measured. O2 content shall be 21% before entering the tank/ enclosed space

DIEP : What special safety measures are required by a seaman when working aloft on a stage?

A : Harness with a rope secured to a safe point on the ship.

DIHC : What is the most probable place that any oil will flow over the ships side in case of an overflow during loading/discharging?

A : Aft part of the tank-deck

DIY : What is the purpose of the "Bowsing tackle" (block and tackle) supplied at each end of the lifeboat?

A : It keeps the boat alongside the embarkation deck so that the tracing pennants can be released

DIJP : What arrangement may be installed in passenger ships to reduce unsymmetrical flooding in damaged condition?

A : Cross flooding arrangement

DIKM : Most of the engine makers recommend to change the cylinder head gaskets each time a piston overhaul is carried out. Why?

A : To obtain a proper sealing and correct distance between piston and cover in TDC position.

DIKP : The thermal insulation provided to the wearer of an anti-exposure suit is sufficient to ensure that the wearers body core temperature does not fall at a rate of more than:

A : 1.5°C per hour after the first 0.5h immersion in calm water at a temperature of 5°C



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

DIKR : In terms of instrumentation and measurement, what is an I/P Transducer?

A : A transducer that converts a known electric current to a pressure proportional to the current.

DIMR : In terms of instrumentation and measurement, what is an I/P Transducer?

A : A transducer that converts a known electric current to a pressure proportional to the

DIMU : Under which of the following conditions would it be dangerous to load a cargo of bulk coal?

A : When the temperature of the coal to be loaded exceeds 55 degrees Celsius

DIMU : When loading a bulk cargo of Coal the ship must be fitted with appropriate instruments to measure the concentration of what gases within the cargo space?

A : The gases specified in all of these answers

DIMU : When should a bulk cargo of coal not be loaded?

A : When the temperature of the coal exceeds 55°C

DIOB : What is enthalpy?

A : Enthalpy is the sum of the internal energy of a substance plus the product of the substance volume multiplied by the pressure exerted on the substance by it's surroundings.

DIOD : What information is not required by a terminal prior to loading coal?

A : The vessel's general arrangement plan

DIOD : Why is air draught an important consideration when loading bulk cargoes?

A : Because of movement of the bulk cargo loader or unloaders

DIOD : Why is air draught an important consideration when loading bulk cargoes on Bulk Carriers?

A : Because of movement of the bulk cargo loader or unloaders

DIOW : The ship is en route. When may passengers visit the bridge?

A : Passengers are not allowed to visit the bridge while the ship is en route

DIUH : Many modern large slow speed diesel engines used for main propulsion operate with a so called constant pressure turbocharging system. What is meant by constant pressure when used to describe such a turbocharging system?

A : Pressure variations at the turbocharger inlet are damped out due to the large volume of



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

DIUH : Many modern large slow speed diesel engines used for main propulsion operate with a so called constant pressure turbocharging system. What is meant by constant pressure when used to describe such a turbocharging system?

A : Pressure variations at the turbocharger inlet are damped out due to the large volume of

DIXB : During inspection of a cylinder of a large slow speed diesel engine it is noted that there are hard deposits around the upper part of the piston crown above the top ring groove and also some evidence of scuffing on the liner wall. From the options given select the one which is the most likely cause of this problem.

A : Cylinder oil with TBN too great for fuel grade is being used.

DIXD : How should the first tier of under-deck containers be loaded onto a non cellular vessel?

A : Onto dunnage laid fore and aft over the tank top

DIXD : On a Container vessel, how should the first tier of under-deck containers be loaded onto a non cellular vessel?

A : Onto dunnage laid fore and aft over the tank top

DJDA : Who is responsible for keeping documentation of the qualifications required for personnel on board?

A : The ship's master

DJDV : In relation to exhaust gas measurement with a thermocouple, use of an amplifier which gives a mA-signal out is preferred. Why is this done?

A : The signal out from a thermocouple is mV, and can not be transferred over any longer distance without loss of voltage, giving a very bad accuracy.

DJFM : You are going to start firing a boiler. Which of the below mentioned alternatives do you consider as most important?

A : A thorough ventilation of the combustion chamber before the ignition takes place.

DJGL : In a fresh water tank with a height of 5 meters we shall use a pressure transmitter for level measurement. The tank has a vent-pipe leading to deck 8 meters above the top of the tank. What pressure shall we use as a guidance when ordering the pressure transducer?

A : 1,3 Bar.

DJGL : In a fresh water tank with a height of 5 meters we shall use a pressure transmitter for level measurement. The tank has a vent-pipe leading to deck 8 meters above the top of the tank. What pressure shall we use as a guide when ordering the pressure transducer?

A : 1,3 Bar.

DJLJ : What are the main elements in a damage control plan?

A : Boundaries of the watertight compartments for decks and holds. Position of controls for opening and closing of watertight compartments. Arrangement for correction of list due to flooding.

DJJP : Which among the following list is particularly required for a totally enclosed lifeboat ?

A : safety belts to be designed to hold a person of 100 kg securely in place with the lifeboat in a capsized position



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

DJKO : There has been an accident at the manifold and one of the crew has swallowed a quantity of unidentified chemical. What is the correct medical term for this?

A : Ingestion.

DJLS : Strawberries are a sensitive cargo with a relatively short carriage life and can only be carried on short sea passages. They are often irradiated for transport. Select the true statement from the options given relating to the effect of irradiation.

A : The main effect of irradiating strawberries prior to transport is that it kills off any bacteria on the fruit.

DJMB : Shortly after starting up a fuel oil purifier oil is seen to be trickling out of the sludge outlet. Which of the options given is the most likely cause of this problem?

A : Damaged bowl seal.

DJNB : When should a vessel's hatch pontoons not be lifted?

A : When the vessel is listed

DJNL : During inspection of a medium speed diesel engine main bearing the shell is found to have approximately 15% of the white metal overlay worn away and some light score marks on the exposed aluminium tin bearing metal. Select the most appropriate action to take from the given options?

A : Refit the shell as it is, this is an acceptable condition for a thin shell bearing after a period of service.

DJNS : The machinery detail plate is missing from a large electric motor and the weight is unknown. As part of a routine maintenance check the motor has to be lifted to access some other equipment. Which of the given options is the correct action that should be taken?

A : As it is only a routine maintenance and not a breakdown then postpone the task until full details of the motor can be obtained.

DJQC : Which of the following food types or food components is considered to be dangerous to health if consumed on a regular basis?

A : High levels of sodium.

DJQC : Which of the following food types or food components listed below is considered to be dangerous to health if consumed on a regular basis?

A : High levels of sodium.

DJQC : Which of the following food types or food components is considered to be dangerous if consumed on a regular basis?

A : High levels of sodium.

DJQG : Which of the following detailed explanations should be mentioned in the Training Manual ?

A : How to muster at the assigned stations

DKGL : When describing equipment used in oil tanker operations, what does the abbreviation "VECS" stand for?

A : Vapour Emission Control System.



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

DKKD : Pasta is often referred to as "al dente". What does this mean?

A : Tender, but slightly firm to the bite.

DKKG : What does crude oil consist of?

A : A combination of hydrocarbons.

DKQF : Anyone of the crew who is assigned to watch duties in port has a number of important tasks to carry out. Which one of the listed tasks should be included in the watchmans duties?

A : Checking the moorings for tightness/slack.

DKQF : Anyone of the crew who is assigned to watch duties in ports has a number of important tasks to carry out. Which one of the listed tasks has to be included in the watchmans duties?

A : Checking the moorings for tightness/slack.

DKUI : After cooking, at what minimum temperature must rice be maintained during service?

A : 63 degrees Celsius.

DKWO : A simple level control for a water tank consists of a horizontal lever with a float at one end and a filling valve at the other. The lever is provided with an adjustable pivot positioned between the valve and the float. How will the offset in the system be affected under changing demand conditions if the pivot is moved closer to the filling valve?

A : It will increase the offset across the demand range.

DKWV : Instructions for "Preparation for welding or hot work in cargo tanks" is laid down by the Norwegian Maritime Directorate. Which of the following requirements regarding welding or hot work corresponds to these instructions?

A : The entering permit shall be based on the check-list for gas freeing and check-list for equipment and preparedness.

DKXI : How should steel coils be loaded at the start of cargo operations?

A : From both sides of a cargo hold working towards the centre

DKXI : How should steel coils be loaded at the start of cargo operations on a General Cargo Vessel?

A : From both sides of a cargo hold working towards the centre

DKXP : Give the meaning of the following symbol

A : Survival craft distress pyrotechnic signals

DLCB : Define the class of emission F1B :

A : Radiotelex and DSC - Frequency shift keying of carrier with error correction



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

DLDN : What is a "Rescue Unit" (RU)?

A : A unit composed of trained personnel suitable equipped for expeditious search and rescue operations.

DLFF : Who is responsible for maintaining the vessels structural strenght?

A : The Master

DLGB : Notices to all vessels of a certain shipping-company are sent via the Inmarsat by an EGC-service. This EGC-service is called:

A : FleetNET

DLGY : A DSC-notice should be sent on VHF-channel:

A : 70

DLJF : How should packaged units be secured below decks?

A : By means of adequate timber shoring and wedging for units grouped together

DLJF : How should packaged units be secured below decks, on a ro-ro cargo vessel?

A : By means of adequate timber shoring and wedging for units grouped together

DLJF : How should packaged units be secured below decks on a RoRo vessel,?

A : By means of adequate timber shoring and wedging for units grouped together

DLJM : How often must a certificate of Competency be re-validated?

A : Every 5 years

DLNF : When measuring the liquid level in the cargo tank of a liquefied gas carrier a number of different corrections may be necessary to get a true reading. Why do readings obtained from a float type ullage tape sometimes require a tape correction?

A : The length of tape in contact with very cold cargo vapours may contract.

DLNN : What pressure is present in the crankcase of a freon compressor?

A : The same as the suction pressure

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A : The same as suction pressure.



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

DLNN : What pressure is present in the crankcase of a vapour compression refrigeration compressor?

A : The same as suction pressure.

DLNN : What pressure is present in the crankcase of a vapour compression refrigeration compressor?

A : The same as the suction pressure

DLVY : When discussing oil tanker design, what do the letters "VLCC" stand for?

A : Very large crude carrier.

DLYG : During inspection of the main bearing shells and housings of a medium speed diesel engine it is found that there is evidence of fretting at some of the bearing shell joint faces, the bearing housing joint faces and also between the back of the bearings and the bearing pocket. From the options given which is the most likely cause of these defects?

A : Insufficient tightening of the main bearing bolts.

DMAJ : On a RoRo vessel, what is the Maximum Securing Load of reusable use wire ropes?

A : 33% of the breaking strength

DMAJ : What is the Maximum Securing Load of mild steel chains?

A : 33% of the breaking strength

DMAJ : What is the Maximum Securing Load of new mild steel chains?

A : 33% of the breaking strength

DMAY : What would the Master require of the Chief Officer?

A : The Second Officer would tell the master the visibility had reduced to probable range of 2 miles and the engines were on standby.

DMDI : What type of fire integrity must be provided for an engine control room ?

A : A 60

DMEO : According to the IMO Gas Codes, what is the minimum number of "Firemen's outfits" required to be carried on a gas tanker with a cargo capacity above 5,000 m3?

A : 5 sets

DMEO : According to the IMO Gas Codes, what is the minimum number of "Firemen's outfits" required to be carried on an LNG carrier with a cargo capacity above 5,000 m3?

A : 5 sets



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

DMEO : What is the minimum number of "Firemen's outfit" on gas tanker, above 5,000 m³, carrying flammable products?

A : 5 sets of "Firemen's outfit"

DMFA : Where would you find out which fire sections of the ship are enclosed by "A" or "B" class divisional bulkheading?

A : On the fire control plans

DMGW : What type of pump of the below mentioned would be most suited for serving as a high pressure boiler water feed pump?

A : Multistage centrifugal.

DMKV : What is a "Mates Receipt"?

A : A receipt issued by the Chief Officer, stating quantity and condition of goods loaded onboard?

DMOY : What would a cracked cross-deck plating found during a loaded passage on a bulk carrier indicate?

A : That shear forces have been exceeded

DMOY : What would cracked cross-deck plating found during a loaded passage on a bulk carrier, indicate?

A : That shear forces have been exceeded

DMOY : What would cracked deck plating found during a loaded passage indicate?

A : That the vessel is overloaded

DMTG : Before commencement of any work aloft, you should carry out risk assessment of the worktask. What kind of extra personal protective equipment is required as a minimum to carry out the work?

A : All personnel who are working aloft, where there is a risk of falling more than two metres, should wear a safety harness (or belt with shock absorber) attached to a lifeline.

DMTI : Your vessel is moving in Panama Canal waters. When must the master be on the bridge?

A : When entering or leaving a lock, passing through Gaillard cut, berthing & unberthing, anchoring or heaving anchor.

DMUE : Which of the following equipments doesn't transmit the MMSI of the ship

A : SART transponder

DMVB : Which of the following fittings shall be provided to all lifeboats:

A : skates and fenders to facilitate launching down the side of a ship



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

DMWT : When cross-flooding arrangements to correct unsymmetrical flooding and excessive heel angles in damaged condition are installed in passenger ships, what is the maximum angle of heel after flooding but before equalization?

A : 15 degrees

DNHW : How are the various zones and spaces on an LNG carrier normally designated in relation to having cargo vapour hazard?

A : Gas-dangerous and Gas-safe.

DNJE : For how long time should a SART transponder be able to operate in the active mode ?

A : 8 hours

DNKB : Oily rags and metal twist pose a particular fire hazard because:

A : They are liable to spontaneous combustion.

DNLN : What is the effect of the I (integration) function of a controller

A : It will try to reduce the deviation between set-point and process value

DNLN : What is the effect of the I (integration) function of a PID controller

A : It will try to reduce the deviation between set-point and process value

DNLN : What is the effect of the I (integration) function of a PID controller?

A : It will try to reduce the deviation between set-point and process value

DNNE : What is important to prepare prior to a helicopter operation?

A : Make sure all loose deck equipment at helicopter deck is stowed away and secured.

DNNI : Which of the following is typical for a feed-forward control system

A : We are controlling the process inlet side

DNNI : Which of the following is typical for a feed-forward control system?

A : We are controlling the process inlet side

DNNO : When opening hatch covers on a General Cargo vessel, what would indicate that there was ingress of water into the cargo holds during the voyage?

A : Bright rust streaks on hatch coamings



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

DNNO : When opening hatch covers what would indicate that there was ingress of water into the cargo holds during the voyage?

A : Bright rust streaks on hatch coamings

DNOC : Gas welding is carried out in the work shop. Prior to lunch break the following precaution is carried out:

A : The main supply valves in the deck storage are closed prior to switching to UMS-mode

DNOC : Gas welding is carried out in the work shop. Prior to lunch break the following precaution is carried out:

A : The main supply valves in the deck storage are closed and checks made that no fire risk

DNRO : A pump cover is sealed using a paper gasket which is damaged during overhaul. There are no spare gaskets available. How should the casing be sealed when reassembling the pump?

A : Make a new gasket from old chart paper or other similar material of the same thickness as the original gasket.

DNSL : How often shall drills for the operation of watertight doors, side scuttles, valves and closing mechanism of scuppers, ash-chutes and rubbish chutes take place in passenger ships?

A : Weekly

DNSN : What are the average maximum working hours which may not be exceeded, in a year on NIS-ships?

A : 2912 hours

DNVM : A P - H type Mollier diagram or chart is often used when dealing with LNG cargoes. What is the main information that can be obtained from a Mollier diagram?

A : Information about the exact values of the pressure, density, specific volume and dryness fraction of the vapour when both the enthalpy and temperature are known.

DNVM : A P - H type Mollier diagram or chart is often used when dealing with LNG cargoes. What is the main information we get from a Mollier diagram?

A : Information about the exact values of the pressure, density, specific volume and dryness fraction of the vapour when both the enthalpy and temperature are known.

DNVM : What is the main information we get from a Mollier diagram?

A : We get information about enthalpy, specific volume of vapour, liquid/vapour mixture, temperature of vapour when pressure is known.

DOAB : Which one of the listed radio distress frequencies is reserved for survival crafts?

A : 8364 kHz

DOBR : What is the minimum number of independently driven fire pumps that must be provided on passenger ships of 4000 GRT and above?

A : 3



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

DOBS : A "Standard Format for Search and Rescue Situation Reports" (SITREPs) should be used by vessels in distress. The SITREP can be compiled as a short form (urgent essential details). Which of the following information shall be included when using the "short form"?

A : Weather on-scene.

DODF : After washing with fresh water how would you know whether salt remains in the cargo holds?

A : By carrying out silver nitrate tests which should turn milky in the presence of chlorides

DODF : After washing with fresh water how would you know whether salt remains in the cargo holds of a Bulk Carrier?

A : By carrying out silver nitrate tests which should turn milky in the presence of chlorides

DODH : What is the correct procedure to extinguish a soot fire in the exhaust boiler?

A : Reduce speed and use soot blowers if some are fitted

DOFY : Which of the following is NOT required to be in the oil transfer procedures?

A : The location and capacity of all fuel and cargo tanks on the vessel

DOGT : How many firemans outfits are to be carried by tankers? (SOLAS II-2/17.3.1.2)

A : At least four sets

DOHO : MARPOL 73/78 - Annex I. Your vessel sailed from Bahrain heading for Singapore.2 days after departure, you like to empty your machinery space bilges. What will be the correct procedures in this connection?

A : Call the bridge and request for position and permission to discharge overboard through oilywater separating and filtering equipment.

DOHR : The station bill contains the details of the emergency signals and:

A : each crewmembers duties in an emergency

DOIT : Select the tool, from the options given, which would be used to produce accurately sized bolt holes in a steel flange?

A : A reamer.

DOKA : Which item among those below is included in the normal equipment of every liferaft ?

A : one boat-hook

DOOF : The wavelength of a radio-signal reflected against the F-layer may be:

A : 15 m



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

DOOU : Give the meaning of the following symbol:

A : immersion suit

DOPY : Is there any requirements regarding crew's language skills?

A : Yes, all crew must be able to communicate on the language spoken by the majority of the passengers, or demands set by the company.

DORN : Cargoes of which of the following chemical groups produce a particularly violent reaction when mixed with an equal quantity of water?

A : Acids.

DORN : Cargoes of which of the following groups produce a particularly violent reaction when mixed with an equal quantity of water?

A : Acids.

DOTF : What additional emergency equipment must be tested during abandon ship drill

A : Emergency lighting

DOWR : How many thermal protective aids are required to be carried on vessels with open lifeboats?

A : One for each person on board who is not provided with an immersion suit

DPAO : What is meant when a vessel is said to have sinkage?

A : Sinkage is the change in draft a vessel obtains when moving through the water.

DPEX : Moored in a harbour, transmitting with a mariphone is:

A : always allowed

DPGO : During maintenance work in the engine room or on deck it is often necessary to work aloft (work at a height above the plates or the deck). When working aloft onboard the ship what is the most important safety precaution that should be taken?

A : Wear a safety harness securely attached to ships structure.

DPHL : What details are recorded in section ALC 1a of the Crew Agreement?

A : Name of every crew member, reference number, name of last ship, home address, next of kin, date of signing agreement, date of discharge

DPIF : What is the most important treatment concerning a foreign body in the eye?

A : Rinsing of the eye with water



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

DPJD : What are some of the precautions that must be taken on a bulk carrier, before double - bottom tanks can be ballasted with sea water?

A : Correct valves opened, air ventilators open and ballasting plan agreed.

DPMI : Which of the following factors affect the separation process

A : Density, viscosity, flow rate, temperature, gravity disc diameter

DPOW : When must personal protective equipment be worn

A : At all times when identified as a control method with risk assessment

DPPI : Which type of cargo pump, commonly found on chemical tankers, is being described here? "A rotodynamic design, where the liquid enters the pump impeller along or near to the rotating axis and is accelerated and pressurised by the rotating impeller, flowing radially outwards into a volute casing, from where it is forced up a pumpstack and into a discharge line".

A : Centrifugal.

DPPI : Which type of cargo pump is being described here? "A rotodynamic design, where the liquid enters the pump impeller along or near to the rotating axis and is accelerated and pressurised by the rotating impeller, flowing radially outwards into a volute casing, from where it is forced up a pumpstack and into a discharge line".

A : Centrifugal.

DPPI : Which type of cargo pump works by the cargo being drawn into the pump at high speed and being thrown outwards against the pump casing by rotating impellers?

A : Centrifugal.

DPTB : You are proceeding up a river, with berths on both banks. You see this flag hoist on a vessel moored on a berth ahead. What does it mean?

A : You should proceed at slow speed when passing me.

DPWG : The stowage factor of a consignment of car parts is given by shippers as 3.00 cubic metres/metric tonne; what space will be required to load 100 tonnes of this type of cargo on a General Cargo Vessel?

A : 300 cubic metres

DPWH : Severe pains in the chest occur when the coronary arteries, which supply blood to the heart, become too narrow for sufficient oxygenated blood to reach the muscles of the heart. Normally these attacks only last a few minutes, and the pain stops if the casualty rests. What kind of medicine to be taken when an Angina Pectoris attack occurs?

A : Nitro glycerine tablets.

DPYV : When is a locker considered as a high risk service space?

A : when its area is of 4m² or more

DQAI : Define the class of emission J3E :

A : Radiotelephony - Single sideband suppressed carrier



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

DQBM : Which type of compressors are used as cargo compressor onboard liquified gas carriers?

A : Piston, screw and centrifugal type compressors.

DQBM : Which type of compressors is used as cargo compressor onboard liquefied gas carriers?

A : Piston, screw and centrifugal type compressors.

DQBM : Which type of compressors is used as cargo compressor onboard liquified gas carriers?

A : Piston, screw and centrifugal type compressors.

DQBM : Why are oil free compressors, either reciprocating or screw types, generally preferred for LPG carrier cargo compressors?

A : It avoids the risk of cross contamination between oil and cargo.

DQBM : Which type of compressors are used as cargo compressor onboard liquified gas carriers?

A : Piston, screw and centrifugal type compressors.

DQEB : A vessels cargo spaces have been cleaned following discharge of a cargo of onions. However a smell of onions still persists. Select the action that should be carried out before the space can be considered as ready for the next refrigerated cargo from the options given.

A : Wash down the space with an approved agent such as 6% hydrogen peroxide.

DQEU : The exact position of a 406 MHz Cospas-Sarsat EPIRB is eventually calculated by:

A : LUT

DQIC : For whom does the qualification requirements apply?

A : For personnel assigned to shipboard duties.

DQKN : In which one of the following an oil, the flash point of which only needs to be over 43°C, may be used?

A : In emergency generators

DQSB : Your ship is going full ahead as you start to slow down. Where is the position of the "pivot point" now? No wind, current.

A : It will move aft as the ship slows down

DQSH : On oil tankers, Cargo tanks can be isolated from machinery spaces by:

A : All the answers are good



DQSH : On oil tankers, Cargo tanks can not be isolated from machinery spaces by:

A : All the answers are good

DQUJ : What would you do if you after starting the separator discovered that the settling tank was full of water

A : Stop the separator and drain the water from the tank

DQUN : How many Working Environmental committee members should be elected on a ship with a crew of 13 members?

A : 1 member

DQUP : After obtaining permission from the duty Deck Officer, under what conditions would the process of sootblowing the boiler tubes be most beneficial?

A : When the boiler is firing on high rate.

DQVH : What is the most common signal from an I/P converter?

A : 4-20mA/3-15 PSI

DQVH : What is the most common signal level from an I/P converter?

A : 4-20mA/3-15 PSI

DQVN : A Cargo Ship Construction Certificate will be issued for :

A : A period not exceeding 48 months

DQVN : A Cargo Ship Construction Certificate will be issued for:

A : A period not exceeding 48 months

DQWG : You have just discharged a Category "A" chemical cargo and are making the first wash of the tank that had contained it. The washing contain a chemical residual concentration of over 0.1% by weight. You can:

A : Discharge the washing to shore reception facilities only?

DRHE : The end covers for a heat exchanger are held in place by a number of brass studs and nuts. Which of the tools given in the options is best suited for removal and tightening of the nuts?

A : Ring spanner or socket.

DRIU : What is the minimum necessary condition for the start and permanence of an oil fuel fire?

A : The temperature is equal to or over the flash point



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

DRKO : What would you suspect has happened if the lubricating oil for an air compressor has a milky white appearance?

A : Water contamination of the oil.

DRKO : What would you suspect has happened if the lubricating oil for an air compressor has a milky white appearance?

A : Change the lube oil.

DRKP : What is the correct PH-value for the Boiler Water?

A : 8,3 - 9.

DRMB : Who is the leader of the lifeboat drill (abandon ship drill)?

A : The appointed lifeboat commander

DRMV : What number is being shown by this flag hoist?

A : 1100

DRVC : On area A3 the function " Reception of shore to ship distress alerts" is mainly based on:

A : the use of HF DSC and INMARSAT C SAFETYNET

DRYM : In a fuel oil separator liquid flows out through bowl casing drain and/or sludge outlet. What is the reason to this?

A : Any of the others.

DSFJ : What is shown in the image?

A : A hatch cleat is shown in the image

DSFJ : What is the normal term used for the regular training of how to launch the lifeboat?

A : Lifeboat drill

DSIQ : If you are called upon to reeve a new wire onto a self-stowing winch drum you would, after looking at brake arrangement, reeve it to pay out as follows:

A : Direction B

DSIQ : If you are called upon to reeve a new wire onto a selfstowing winch drum you would, after looking at brake arrangement, reeve it to pay out as follows:

A : Direction B



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

DSIY : What is the status on Suez canal pilots?

A : Pilotage is compulsory and the pilot is only the master's advisor

DSML : How would pirates attacking a ship be communicated to another ship?

A : "My ship is under attack by pirates"

DSOQ : Can containers carried on multi-purpose or general cargo ships be lashed with lashing wires and chains?

A : Yes, if provided for in the vessel's Cargo Securing Manual (CSM)

DSOQ : On a Container vessel, can containers carried on multi-purpose or general cargo ships be lashed with lashing wires and chains?

A : Yes, if provided for in the vessel's Cargo Securing Manual (CSM)

DSPL : Define the class of emission H3E :

A : Radiotelephony - Single sideband full carrier

DS TG : What is the purpose of deep tanks on general cargo ships?

A : To aid stability

DSTG : What is the purpose of having deep tanks on a general cargo ships?

A : Primarily for ballasting and to aid the stability when loaded, but may be used for liquid cargo

DSVC : Before leaving the machinery spaces of a UMS vessel whose engine room is covered by a fixed CO2 installation, should the duty engineer:

A : Ensure all doors are in closed position.

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A : Ensure all doors are in closed position

DSVC : Before leaving the machinery spaces of a UMS vessel whose engine room is protected by a fixed CO2 installation, should the duty engineer:

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DSVC : Before leaving the machinery spaces of a UMS vessel whose engine room is protected by a fixed CO2 installation, should the duty engineer:

A : Ensure all doors are in closed position.



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

DSWC : On a RoRo vessel, what must be considered when planning the loading of ro-ro cargoes on ramps?

A : SWL and loading limit of the ramp and Minimum clearances for the operation of ramp doors

DSWC : What must be considered when planning the loading of ro-ro cargoes on ramps?

A : Minimum clearances for the operation of ramp doors

DSYM : Several cargoes require determination of pH values (acidity) which is often a measure of quality or degradation of cargo such as animal or vegetable oil during transport. A neutral solution has a pH value of:

A : 7

DTAM : Does a joint of meat that has been filled with a stuffing mixture take longer or shorter to cook? (Select the most correct answer).

A : Longer.

DTBA : How long must an Oil Record Book, documenting oil cargo operations, be retained on board after the last entry has been made?

A : Three years after the last note was made

DTBG : These circuits are all active filters. Which of the circuits is a low-pass filter?

A : Figure 2

DTEH : What is the primary purpose of an Accumulator in a hydraulic circuit associated with cranes?

A : To store quantities of oil at working pressure on the discharge side of a pump and smooth out any pressure fluctuations.

DTEJ : The type of pump used for delivering the oily-water mixture to an oily-water separator governs considerably the degree of contamination in the effluent. What type of pump would be best suited not to churn the supply and produce small oil droplets (less than 200µm) dispersed throughout the water?

A : Screw.

DTHW : The positions of the ship provided by the GPS should always be confirmed by other means, when possible. Which of the following suggested methods would be the most accurate?

A : Fixed known objects on the shore

DTIP : On the figure 4 possible definitions of the term "CAPSTAN" are given. Which one is the correct one?

A : Capstan is given by A on the figure

DTIR : If you have to carry out hot work close to a smoke detector in the engine room, what precautions should be taken?

A : Notify Master, Deck officer and engineer in charge. The loop for this special sensor to be switched off and take normal precautions for hot work.



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

DTRU : With what system is a NAVTEX-message transmitted?

A : FEC

DTSU : How do You want to operate the purifier to obtain the best separation result?

A : Separation with correct temperature and low flow rate.

DUAG : What is a demand when carrying Diethyl Ether ?

A : Pressure-relive valve setting should not be less than 0.2 bar for gravity tanks.

DUAL : At what relative pressure should the superheater safety valve be set to lift at to ensure that adequate steam flow is maintained through the superheater in the event of boiler overpressure?

A : Less than the lift pressure of the main steam drum safety valves.

DVBE : Why do rolled joints of meat carry a higher risk of bacterial infection?

A : Because any bacteria that were present on the outside surface of the meat will be transferred to the inside when the joint is rolled.

DVGA : The engine RPM drops because of:

A : Faulty governor.

DVHB : On a cellular container vessel, what would indicate that a cargo hold is not ready to accept containers?

A : Damaged cell guides

DVHB : On a cellular container vessel, what would make a cargo hold not ready to accept containers?

A : Damaged cell guides

DVHQ : On a Chemical Tanker suitable for carrying "special requirement" cargoes as per Chapter 15 of the IBC Code, such as Acrylonitrile, (most Chemical Tankers are), it is required that in addition to the SCBA sets used for firefighting, 3 additional SCBA sets (+ protective clothing) are carried for use in entering gasfilled compartments. These SCBA sets should be inspected:

A : At least once every month by a responsible officer and once every year by an expert?

DVML : On a General Cargo ship, what must completed before a cargo hoist wire is replaced on a deck crane ?

A : A full risk assessment carried out and a permit to work issued

DVNH : Why is it important for hatch coaming compression bars to be maintained in good order?

A : So that hatches can be properly sealed



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

DVNH : Why is it important for hatch coaming compression bars to be maintained in good order on a General Cargo Vessel?

A : So that hatches can be properly sealed

DVOC : A deck patrol notices that a cargo space carrying refrigerated cargo under controlled atmosphere (CA) is not padlocked shut. Select, from the options given, the main reason why such a space should be kept locked.

A : To prevent unauthorised entry into the space because of the hazard risk due to the low oxygen content of the controlled atmosphere in the space.

DVUE : Insulating materials used on liquefied gas carriers are required to have certain properties including a good vapour diffusion resistance. Which of the insulating materials has the highest vapour diffusion resistance?

A : Polyurethane foam.

DVUE : Which of the following has highest diffusion resistance?

A : Polyurethane foam.

DVUW : In case of diesel driven fire pumps, for how long period shall the fuel tank capacity allow the pump to be run at full capacity? (SOLAS II-2/4.3.3.2.3)

A : Three hours

DVUW : In case of diesel driven fire pumps, for how long shall the fuel tank capacity allow the pump to be run at full capacity? (SOLAS II-2/4.3.3.2.3)

A : Three hours

DWBD : On a Container vessel, what are the limitations of Cargo Securing Manuals?

A : They are drafted whilst the ship is still under construction and need to be checked against the ships as completed condition in order to be fully reliable.

DWBT : If oil flows out of the bowl casing drain of a solids ejecting separator what is the most likely problem

A : Insufficient amount of bowl closing water

DWDH : On a Container vessel, what is the purpose of fixed stacking cones?

A : To prevent horizontal movement of 20containers in 40 cell guides

DWFA : Name three international conventions that cover the international shipping trades?

A : The three international conventions that cover the shipping trade is SOLAS 74/78, STCW 78/95 and MARPOL 73/78

DWGW : Cargo tanks with which of the following lining types can be used for the carriage of Propylene Oxide?

A : Steel or stainless steel.



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

DWGW : Cargo tanks with which of the following lini type can be used for the carriage of Propylene Oxide ?

A : Steel or stainless steel.

DWKU : The responsibility for safety and security rests with everybody on board the vessel. General house-keeping rules should be followed. Which of the listed rules is the most important?

A : Use protective equipment where necessary.

DWOF : When we are measuring viscosity with a restricted flow viscometer, the name of the sensing device is:

A : Capillary tube

DWOF : When we are measuring viscosity with a restricted flow viscometer, the preerred sensing device is:

A : Capillary tube

DWPW : You are on a vessel 15 nautical miles off the coast of Nigeria, West Africa. Are you allowed to dump food waste overboard?

A : Yes, all kind of food waste can be dumped overboard

DWQR : Most medium and high speed engines for marine use operate on the four stroke cycle and use direct admission of compressed air into the cylinders for starting purposes. During which part of the cycle does start air admission normally take place?

A : The first part of the expansion (power) stroke.

DWRP : Your vessel is sailing tours, calling at ports in Japan, South Africa, the USA and Europe. Where would you make your main purchase of provisions and stores for the entire trip?

A : Rotterdam, the Netherlands

DWUV : What action should be taken by the Officer of the Watch when the GPS fails?

A : Inform the technical officer responsible for the electronic navigational equipment and continue on passage using alternative navigational methods

DWYY : What is the meaning of this symbol ?

A : Lower lifeboat to water

DXBP : Pump rooms on oil tankers shall be provided with a fixed fire-extinguishing system. Which of the following systems is in accordance with present regulations? (SOLAS II-2/63)

A : Fixed CO2 fire-extinguisher system

DXHH : You are approaching a port in a snowstorm. You hear this signal. What kind of vessel is it and what is it doing?

A : It comes from a vessel engaged in pilotage duties and it is making way through the water.



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

DXKQ : Which one of the listed requirements regarding the launching and recovery arrangements for survival crafts corresponds to present SOLAS regulations?

A : Means shall be available to prevent any discharge of water on to survival crafts during abandonment.

DXLK : Where is the International Shore Connection to be stored?

A : Easy accessible by the gangway

DXLK : Where is the International Shorecoupling to be stored?

A : Easy accessible by the gangway

DXND : In maritime radio traffic sea area A1 is considered a sea area which:

A : is within radio traffic range of at least one VHF- coast station where continuous DSC-alerting is available

DXOD : What is a Marine Evacuation System?

A : Evacuation Chute(s)/Slide(s) and Liferrafts

DXRL : Which one of the listed requirements regarding lifejackets do not correspond to present regulations? (SOLAS III/32) A lifejacket shall be so constructed that:

A : it allows the wearer to jump from any height without injury and without damaging the lifejacket

DXRU : What name is given to the oriental pan which has a small round base and wide sloping sides, commonly used for cooking "stir-fry" dishes?

A : Wok.

DXRU : What name is given to the oriental pan which has a small round base and wide sloping sides, that is commonly used for cooking "stir-fry" dishes?

A : Wok.

DXUT : How often must a crew member participate in a fire drill?

A : Once every month

DXXF : How are the officers informed of the ships stability in damaged conditions?

A : By permanently exhibited damage control plans

DYAV : There are strict rules governing the placement and category of electrical equipment allowed in certain areas of liquefied gas carriers. One such category is that of flameproof enclosures. What is a flameproof enclosure?

A : One which can withstand the pressure build-up during an internal ignition of a flammable mixture and is designed to cool any flames occurring within the enclosure to below the ignition tempera



DYBF : The purpose of the surface blow valve is to

A : Remove any oil or scum on water surface

DYCH : An enclosed lifeboat is fitted with a self-contained air support system. With the engine running, what is the minimum period of time the air should remain safe and breathable?

A : 10 minutes

DYGH : How many hours before departure should the ships steering gear be checked and tested?

A : Within 12 hours

DYHB : Which shipboard equipment will detect a signal from a SART?

A : S-Band Radar.

DYHF : Following replacement of a diesel alternator governor the machine is test run on load. It is found that as the load is gradually increased the voltage and the frequency gradually fall to an unacceptable level. The governor is a mechanical hydraulic type. Select from the options given the correct adjustment to make to correct the situation.

A : The governor droop should be reduced.

DYHH : How many grams of pure boneless beef would you calculate per person for hot dishes/roasts?

A : 200 gr

DYHH : How many grams of pure boneless beef would you consider suitable per person for hot dishes/roasts?

A : 200 gr

DYIY : What are the responsibilities of a watch-keeping engineer?

A : To by-pass, adjust and isolate all machinery that is to be worked on under his supervision.

DYIY : What are the responsibilities of a watch-keeping engineer?

A : To inform the Chief Engineer of any situations that cannot be controlled during the watch

DYLL : How will you start a cancelling message after you send by mistake a distress call on your VHF DSC equipment

A : All Stations - This is "SAINT-ROMAIN"

DYOS : The following DSC-message was received:(see original)The nature of the distress is:

A : unknown



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

DYSA : Which types of compressors are utilised as cargo handling compressors on gas carriers?

A : The types of compressors are piston, screw or centrifugal type

EAAC : Which of the following fittings shall be provided to all lifeboats:

A : arrangements for providing an adequate view forward, aft, and to both sides

EACN : Which of the procedures given in the options should be adopted, when walking across a stow of refrigerated produce, in order to minimise any damage to the produce?

A : Use a walking board.

EAHL : You just have thrown an inflatable liferaft overboard from your vessel. The liferaft was stowed at a distance of 10 metres above the waterline (light condition). What minimum length of painter will you have to pull out in order to get the liferaft inflated (N.B.: The inflation of the liferaft takes place once the whole length of painter is pulled out)

A : 20 metres

EAHL : You just have thrown an inflatable liferaft overboard from your vessel. The liferaft was stowed at a distance of 10 metres above the waterline (light condition). What minimum length of painter will you have to pull out pulled out in order to get the liferaft inflated (N.B.: The inflation of the liferaft takes place once the whole length of painter is pulled out)

A : 20 metres

EAKC : What areas of a vessel must the safety officer inspect on a three monthly basis

A : All working spaces accessible by the crew

EATY : If a refrigeration system contains air, how would you remove it from the system?

A : Pump the system down to the condenser, continue cooling water flow until the condenser is at the same temperature as the cooling water and vent off the air from the top of the condenser.

EATY : If a refrigeration system contains air, how would you remove it from the system?

A : From the condenser.

EAUM : If normal cool down rate has been complied with, what should the temperature at the primary insulation and the secondary barrier be?

A : -100C and -80C.

EAUM : If normal cool down rate has been complied with, what should the temperature at the primary insulation and the secondary barrier be for an LNG cargo containment system?

A : -100C and -80C.

EAUS : If all indications are that a cargo has been received without damages, irregularities or short shipment and the phrase "apparent good order and condition" are entered on the Bill of Lading, what type of Bill is this said to be?

A : A contract between Master/Owner and Shipper for transportation of goods?



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

EAUS : If all indications are that a cargo has been received without damages, irregularities or short shipment and the phrase "apparent good order and condition" is entered on the Bill of Lading, what type of Bill is this said to be?

A : A contract between Master/Owner and Shipper for transportation of goods?

EAWN : Which of the following features is required for an anti-exposure suit ?

A : is fitted with a light and a whistle

EAXB : According to the rules of GMDSS all vessels have to be equipped with:

A : a possibility to receive MSI

EAYE : What are the main components causing the magnetic compass to require a regular evaluation and compass correction?

A : Permanent and induced magnetism in the ships structure

EBAT : Which of these statements about drug smugglers modes of operating is true?

A : Drugs smuggled by an organized conspiracy are usually concealed in a primary ship system such as the engine room or in a tank, void or compartment.

EBAU : What is the main disadvantage of using oil free, screw type compressors for the reliquefaction plant of an LPG carrier?

A : It is the number of revolutions, and the one used on the cargo is oil-free

EBAV : For what purpose do we use inert gas onboard gas carriers?

A : We use inert gas to purge out cargo vapour and have a neutral atmosphere in cargo tanks and spaces

EBKQ : The Company should ensure that the ships personnel are able to communicate effectively in the execution of their duties related to the Safety Management System. What does it really mean?

A : All personnel on board shall be familiar with the Safety Management System. The individual seafarer shall know procedures specifically related to their rank and duties onboard.

EBLR : What is the safest way to complete loading (topping off)?

A : Have one slack tank as last tank

EBMX : On a Container vessel, which group of containerised dangerous goods is considered the most hazardous for marine transportation, due to possible decomposition at normal temperatures?

A : Organic peroxides

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A : Organic peroxides



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

EBMX : Which group of dangerous goods is the most hazardous for marine transport?

A : Organic peroxides

EBOE : During air venting/gas freeing of tanks the blowers use air from?

A : The blower air inlet

EBOX : What is the strain on each of the two slings?

A : 1) 5 tons 2) 5 tons

EBPS : The emergency fire pump is in accordance with good seamanship and precautionary routines run and tested weekly. Routine checks and maintenance are normally carried out by dedicated personnel. To ensure safe and appropriate operation of the pump, would you consider it beneficial that the same dedicated personnel operate the pump in emergencies?

A : In case of accidents, it is important that a wide range of personnel must be permitted and trained to operate the pump.

EBRI : What is/are the area(s) of the vessel which present a greater risk of fire?

A : Cargo holds and engine rooms

EBWH : On the figure 4 possible definitions of the term "FREEBOARD" are given. Which one is the correct one?

A : Freeboard is given by B on the figure

ECAT : What is the factor that makes the difference between a deflagrating and a detonating explosion?

A : The speed of the shock wave created by the initial combustion

ECBO : How should a mobile crane's hook and sheave assembly be secured on board a ro-ro vessel?

A : The assembly should be secured to a lug on the unit's front fender or suitable lashing point on the vessel's deck, and tightened

ECBO : When securing a non-standardized portable tank on a RoRo vessel, what is a favourable securing angle that will prevent it from transverse sliding?

A : 18 to 23 degrees

ECBO : When securing a non-standardized portable tank what is a favourable securing angle that will prevent it from transverse sliding?

A : 18 to 23 degrees

ECHF : Which ships are given special attention in Paris Memorandum of Agreement port state control inspections

A : Passenger ships, ro-ro's, bulk carriers, ships which may present a special hazard ships which have had several recent deficiencies and ships flying the flag of a state appearing in the 3-year rolling average table of delays and detentions



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

ECHP : What is the typical composition of liquified natural gas, LNG?

A : Mainly Methane, but with small percentages of heavier hydrocarbons such as ethane, propane, butane and pentane.

ECHP : What is typical composition of LNG?

A : Mainly Methane, but with small percentages of heavier hydrocarbons such as ethane, propane, butane and pentane.

ECKQ : A diabetic has eaten too little food and the person may feel dizzy and lightheaded. The skin becomes pale, with profuse sweating. Limbs may begin to tremble and pulse becomes rapid. The urine glucose reaction is negative. What kind of medicine will the person need as soon as possible?

A : Sugar lump, sugar drink or something sweet.

ECKQ : A diabetic has eaten too little food and the person may feel dizzy and lightheaded. The skin becomes pale, with profuse sweating. Limbs may begin to tremble and pulse becomes rapid. The urine glucose reaction is negative. What kind of medicine will the person need as soon as possible?

A : Sugar lump, sugar drink or something sweet.

ECLL : What is the meaning of the abbreviation "SWL" as stamped on lifting gear around the ship?

A : Safe working load

ECMI : This circuit is a flip-flop. Which type?

A : Bi-stable flip-flop

ECNX : On a Container vessel, what do you call the corners of a container which house the twistlocks?

A : Corner castings

ECNX : What do you call the corners of a container which house the twistlocks?

A : Corner castings

ECOS : What is the lowest temperature at which potatoes should be stored?

A : + 4° C

ECSD : When sending an OBS (weather report) with Inmarsat one should use Service Code '41'. With this address the weather report will always be transmitted to :

A : The meteorological station connected with the CES used

ECSV : Give the meaning of the following symbol:

A : immersion suit



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

ECTN : The chemical abbreviation "H₂S" is often associated with Crude Oil cargoes. What does the abbreviation stand for?

A : Hydrogen Sulphide.

ECTR : Having boarded the liferaft, how do you release the painter?

A : Cut it with the safety knife stowed on the exterior of the canopy close to the painter attachment point

ECXE : Is it allowed to have animals on the car deck during a voyage?

A : Yes, if they are safely placed in a suitable vehicle

EDCE : What do you understand by the term "Slewing"?

A : Making the crane jib move from side to side.

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A : Making the crane jib move from side to side.

EDCG : How often shall the master review the safety management system?

A : Annually

EDCI : A refrigerated container vessel described as being con-air would most likely maintain perishable products by which of the following means?

A : Cold air delivered direct to the containers via a system of ducts.

EDFH : Messages which aren't intended for own ship farther:

A : must not be passed on

EDHG : You are to supervise a hot work repair in a cargo tank on an oil tanker. You have measured the atmosphere inside the compartment as 21% oxygen content by volume and less than 1% LFL concentration. Does this mean the work can commence? (Select the most correct option)

A : No. More readings should be taken and sediments, sludge and residue should be removed at least 10 m from working site.

EDHG : You are to supervise a hot work repair in a cargo tank on an oil tanker. You have measured the atmosphere inside the compartment as 21% oxygen content by volume and less than 1% LFL hydrocarbon vapour concentration. Does this mean the work can commence? (Select the most correct option)

A : No. More readings should be taken and sediments, sludge and residue should be removed at least 10 m from working site.

EDHY : Which one of the listed requirements regarding partially enclosed lifeboats do not correspond to present regulations? The canopy between rigid covers shall be so arranged that:

A : it has windows to admit sufficient daylight inside the lifeboat with the canopy closed



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

EDKO : What is the correct location or working station for the deck watchman during cargo operations?

A : On the cargo tank area all time?

EDKO : What is the correct location or working station for the deck watchman during cargo operations on an oil tanker?

A : On the cargo tank area all time?

EDPP : Proper transmissions of the NAVTEX-message can be aided by:

A : automatically comparing the message earlier received ones

EDRB : What is the most effective fire extinguishing medium to use on a small LPG fire on the cargo deck of a liquefied gas carrier?

A : Because certain types of dry powder can cause breakdown of a foam blanket

EDWG : What phenomenon is used for liquid cleaning by centrifugal separators

A : Centrifugal force

EDXV : How many tonnes can you load in a 1000 m³ tank which has a filling restriction of 1.8 kg/l at 90 % filling. Product to be loaded is Sulphuric Acid, LW 1.8 at loading/voyage temperature.

A : 1620 Mt

EDYG : Which type of reliquefaction plant can have the cooling coil placed directly in the vapour space of the cargo tank?

A : One type of the indirect cycle reliquefaction plants.

EEAE : What is the minimum distance between the helmet and the head of the wearer supposed to be?

A : 3 cm

EEAM : Before leaving the machinery spaces of a UMS vessel whose engine room is covered by a fixed CO₂ installation, should the duty engineer:

A : Ensure all doors are in closed position.

EEBG : How much water per person is provided in a lifeboat not equipped with a desalting apparatus?

A : 3 litres

EECD : What is the Chief Mate asking for?

A : He is asking about the position of the chain



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

EECH : The duty engineer of a UMS ship is approached by a member of the ships staff, seeking permission to hang wet working clothes in the engine room to dry. Should he:

A : Not allow the clothes to be hung anywhere in the unmanned machinery spaces.

EEDP : As far as human factor is concerned, which of the following actions should be considered as an efficient one?

A : All the answers are good

EEFI : What is MERSAR an abbreviation for?

A : Merchant Ship Search and Rescue Manual.

EEHC : An alarm signal consisting of seven short blasts followed by one long blast is sounded by the ships whistle and the alarm bells. What are you to do?

A : Go to your lifeboat station (muster station).

EERA : If whistles are fitted on a vessel at a distance apart of more than 100 metres, will manoeuvring and warning signals, as defined by rule 34 of the International regulations for Preventing Collisions at Sea, be given on one or both whistles?

A : They shall be given on one whistle only.

EERB : A medium speed diesel engine, operating with a pulse turbocharging system, has been adjusted to have good power balance. What would the cylinder exhaust gas temperatures, relative to each other, be expected to be?

A : plus or minus 30 degrees Celsius.

EERI : What must be ensured when lowering of the stern/side ramp?

A : Grease from the wire falls must not fall onto the jetty

EERI : What must be ensured when lowering of the stern/side ramp of a ro-ro vessel?

A : Grease from the wire falls must not fall onto the jetty or into the water

EERI : When lowering a RoRo Cargo Side or Stern Ramp what must be ensured ?

A : The vessel is securely moored and there is nothing beneath the ramp

EEXF : For what purposes is nitrogen used in cargo tanks on a chemical tanker?

A : Safety (atmosphere control) and purity (maintenance of quality of product by stopping contact with air).

EEYR : What initial simple action can be taken to reduce the oxygen content of boiler water?

A : Raise the feed water temperature.



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

EFAD : What is the main task of the lubrication oil in the engine?

A : To lubricate and cool the engine.

EFBE : What document gives permission to have the on board transmitting equipment?

A : a license

EFFH : The continuous listening watch on VHF-channel 16 must be kept on ships:

A : also after 1 February 1999

EFHP : Can any ground be given for dismissing a seafarer?

A : No, only those listed in the Seamen's Act as dereliction of duty.

EFHR : If the master goes ashore, he is obliged to inform the:

A : The deck officer of the highest rank present

EFNC : According to SOLAS Regulation all dedicated seawater ballast tanks on oil tankers shall have an efficient corrosion prevention system such as hard protective coatings or equivalent. With regard to coatings do SOLAS set any requirement to colour?

A : Preferably light colour.

EFOM : What is the function of the MPCU branch of the MCA

A : To respond to oil pollution and take appropriate action as may be necessary

EFQD : When do vertical accelerations acting on containers reach their maximum values?

A : When a ship is changing direction at its extreme angle of pitch

EFRB : Prior to entering service on a vessel in foreign trade for the first time you are required to have a health certificate not older than?

A : Three months.

EFRC : Telephones are being used to communicate between personnel onboard and ashore during a bunkering operation. What instruction would you give to ship personnel regarding action to take in the event of failure of the telephone communication during the operation?

A : Stop the bunkering until safe communications are established

EFVH : The satellite of the Inmarsat-EPIRB system have:

A : geostationary orbits



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

EFVO : If, on a cellular container vessel, there are isolated stacks of five-high containers at bay 24, off-centre at bay 04 and at the extremity of bay 18 which of these may require wind lashings?

A : All three

EFVO : If there are isolated stacks of containers at bay 12, off-centre at bay 04 and at the extremity of bay 06 which of these stacks will require wind lashings?

A : All three

EFVO : On a Container vessel, if there are isolated stacks of containers at bay 12, off-centre at bay 04 and at the extremity of bay 06, which of these stacks will require wind lashings?

A : All three

EFWW : Which of the following is considered as a possible source of ingress of seawater into the cargo holds?

A : Hatch covers and coamings

EFWW : Which of the following is considered as a possible source of ingress of seawater into the cargo holds of a Bulk Carrier?

A : Hatch covers and coamings

EGBB : Where do you find instructions for tasks and duties in case of an emergency?

A : In the muster list.

EGCP : Which of the main nine sections of the book "Excerpts from The Norwegian Passenger and Cargo Ship Legislation, etc." states that the publication "Seamens Act with regulations and comments, 1995 " shall be on board?

A : VI

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A : VI

EGGB : What is a Continuous Synopsis Record?

A : A record of the vessels history

EGHM : In which document would you record that the gangway is properly rigged?

A : The deck log book

EGNI : Why are soluble oils not usually used as cooling water treatments these days?

A : Risk of deposits on heat transmitting surfaces.



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

EGNL : How many rescue boats should be provided on ro-ro passenger ships of 500 gross tons and above?

A : Two, and at least one of the rescue boats shall be a Fast Rescue Boat

EGNN : The pyrotechnics used to transmit visual signals to other vessels, boats or aircrafts are of the following type

A : All of the below mentioned

EGNN : The pyrotechnics used to transmit visual signals to other vessels, boats or aircrafts are of the following type

A : all of the above-mentioned

EGOG : To evaluate the condition of a heat exchanger the following measurements should be recorded:

A : In and outlet temperatures, and flow rates for both media

EGOG : To evaluate the condition of a heat exchanger the following measurements should be recorded:

A : Inlet and outlet temperatures and pressure drops across the heat exchanger for both fluids.

EGSU : On area A1 the function " Transmission and reception of ship to ship distress alerts " is mainly based on:

A : the use of VHF DSC

EGWQ : What is one way to try to overcome peoples fears about loved ones?

A : Assure them that the crew is sweeping the entire ship for passengers.

EHEB : What is the correct name of the part highlighted in the sketch?

A : Exhaust valve

EHJG : Where should placards be located on a freight container?

A : One on each end and one on each side.

EHLP : Which of the following kinds of fish is least perishable in cold storage?

A : Herring

EHLP : Which of the following kinds of fish is the least perishable in cold storage?

A : Herring



EHLP : Which of the following kinds of fish is the most perishable in cold storage?

A : Herring

EHLW : Which one of the listed requirements regarding lifeboat fittings do not correspond to present regulations? All lifeboats shall be fitted with:

A : a remotely operated steering arrangement

EHMQ : How often shall watertight doors in main transverse bulkheads which is in use at sea be operated (tested)?

A : Daily

EHNJ : What is the correct temperature range for the vegetable room where most of the fruits and vegetables are stored?

A : 4 - 5° C

EHQW : In a closed loop control system the error signal is derived from which of the following?

A : The demand and the feedback signal

EHQX : Which item among those below is included in the normal equipment of every lifeboat ?

A : two boat-hooks

EHRN : Who is responsible to ensure that all personnel on board are provided with suitable Personal Protective Equipment where it is needed?

A : The Company/ employer

EHVA : What is the most likely cause of the clean oil outlet pressure being higher than normal when operating a centrifuge as a fuel oil separator?

A : Valve in the outlet line partly closed.

EHVR : What type of Bill of Lading covers "door to door" shipment?

A : A Through Bill of Lading.

EHWT : Which of the following detailed explanations should be mentioned in the Training Manual ?

A : The use of devices for protection in launching areas

EHXQ : What is the time limit for abandonment of passenger ships?

A : 30 minutes from the time the abandon ship signal is given



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

EICL : In case of a fire in engine rooms, cargo holds or other confined spaces, what has to be done before the central gas extinguishing system is used?

A : Make sure that the compartment has been evacuated

EIDF : How would you determine whether a particular cargo transfer hose was compatible with the chemical product to be transferred?

A : Refer to the product entry in the hose manufacturers chemical resistance chart.

EIFT : Posters or signs shall be provided on or in the vicinity of survival craft and their launching controls. Which of the following requirements do not have to be included according to present regulations? (SOLAS III/9)

A : Give information on survival craft capacity

EIGQ : How many buoyant smoke signals are carried in each lifeboat?

A : 2

EIHP : Water is best removed from lubricating oil by:

A : Centrifugal separator.

EIKN : What is the approximate pressure that LNG is normally carried at in the cargo tanks of an standard LNG carrier?

A : Zero bar (Atmospheric pressure).

EIKN : Which IMO convention takes care of the human safety at sea?

A : It is the STCW that takes care of the human safety at sea.

EILW : During inspection of a cylinder liner for a large, slow speed diesel engine it is found to be worn in a cloverleaf pattern. The greatest points of wear are found to be in way of the cylinder lubricator holes. From the options given, what is the most likely cause of this type of wear pattern?

A : Cylinder lubricant has too high an alkalinity for the sulphur content of the fuel.

EIOE : A deaf man is reading the paper in the lounge when the emergency alarm sounds. How do you expect him to react?

A : He will continue reading the paper.

EIPW : Fire protected lifeboats when waterborne should be capable of protecting its full complement when subjected to a continuous oil fire that envelops the boat for a period of not less than how many minutes?

A : 8 minutes

EIQQ : Which of the following detailed explanations should be mentioned in the Training Manual ?

A : The way to board, launch and clear the survival craft and rescue boats



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

EIXM : At what time must an automatic sprinkler fire-extinguishing system be capable of immediate operation?

A : At all times

EJAA : For protection of crew who might come into contact with chemicals in the course of their work, the ship should have suitable equipment such as chemical resistant aprons, gloves, footwear, coveralls, face and eye shields etc. After the days work these should be stowed:

A : In suitable lockers easily accessible, yet segregated from the living spaces themselves?

EJAR : At which of the pressures shown should the high discharge pressure trip operate on a freon compressor?

A : + 18.5 bar

EJBR : If you see anything goes wrong with the loading or the discharging, who shall you as duty officer report to for corrections?

A : The stevedore superintendent?

EJCH : How often should the lifeboat wire falls be turned and renewed?

A : Turned at intervals of not more than 30 months and renewed every 5 years

EJJC : What is the period of validity of Safety Radio

A : 1 year

EJKJ : What name is given to the process of discharging water from a designated slop tank on an oil tanker while minimising the disturbance of the oil layer on top, with the objective of removing as much water as possible?

A : Decanting.

EJKJ : What name is given to the process of discharging water from a designated slop tank whiler minimising the disturbance of the oil layer on top, with the objective of removing as much water as possible?

A : Decanting.

EJLQ : In a series installation of a purifier and a clarifier, what is the purpose of the clarifier

A : As a safety net, for improved cleaning of the fuel oil

EJQO : Which one of the listed requirements regarding rocket parachute flares do not correspond to present regulations? The rocket parachute flares shall:

A : burn with a bright orange colour

EJYA : For which of the following systems would you install a PID-controller

A : Temperature-control



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

EKAR : When converting from "dry" cargo (example iron ore) to crude oil, you would:

A : Sweep holds clean first and lift out solid residues manually prior washing. After washing again lift out remaining wet residues after carefully stripping out only the accumulated water?

EKCB : Define the class of emission F3E :

A : Radiotelephony - Frequency modulation

EKEX : What comprises an INMARSAT-C subscriber number?

A : Nine digits, beginning with a four (4).

EKLM : How many rocket parachute flares are carried in each lifeboat?

A : 4

EKLO : How much water per person is provided in a liferaft not equipped with a desalting apparatus?

A : 1.5 litre

EKTV : SCENARIO: All Fast has just been declared on completion of an underway mooring operation on both the constant heading ship (generally the discharging vessel) and the manoeuvring vessel (generally the offtake vessel). It is now decided that the former vessel should anchor. Who assumes responsibility for navigation from All Fast time to completion of anchoring time?

A : The vessel anchoring assumes responsibility

EKUL : What is the expected state of the refrigerant immediately before the expansion valve in a vapour - compression refrigeration system?

A : Liquid at high pressure.

EKUQ : What shall you do if you are in the engine room and the alarm for "CO2 system in the engine room" is released?

A : Leave the engine room immediately.

EKVD : What should be the healthy continuity resistance of a 220V, 2.2kW heating element, when checked near to its rated operating temperature?

A : 22 Ohms

EKVD : What should be the healthy continuity resistance of a 220V, 2.5kW heating element, when checked near to its rated operating temperature?

A : 19.36 Ohms

EKVD : What should be the healthy continuity resistance of a 220V, 2.2kW, 10A heating element, when checked near to its rated operating temperature?

A : 22 Ohms



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

EKVD : What should be the healthy continuity resistance of a 220V, 2.2kW heating element, when checked near to its rated operating temperature?

A : 22 Ohms

EKVI : For how long should a tank be ventilated when people are working inside?

A : For as long as people are working in the tank.

EKWG : Give the meaning of the following symbol

A : Line throwing appliance

EKXF : In general what is the proportion of concentrate to water to produce foam?

A : Between 3% and 6%

EKXV : Safety is of great importance on a liquefied gas carrier because of the hazardous nature of the cargoes carried. Where should a copy of the ships fire fighting and safety plan be kept while the vessel is alongside at a terminal?

A : In a container near the gangway.

EKYY : The main engine is running steady. What is the normal slow down temperature for the main engine thrust bearing segment?

A : 75° C

ELDW : Semi-pressurised liquefied gas carriers are often fitted with direct, single stage reliquefaction plants for cooling the cargo and dealing with boil off vapours. What cooling medium is usually used in the condenser to condense the cargo vapours for this type of system?

A : There are three main reliquefaction systems, Direct cooling one to three stage, direct cascade cooling and indirect cooling

ELER : What is the maximum allowed oxygen content in inert gas for inerting liquefied gas carrier cargo systems according to the IMO IGC Code?

A : Maximum allowed Oxygen content in the inert gas on gas carriers is 5% by volume.

ELER : What is the maximum allowed oxygen content in inert gas in accordance to IMO IGC code?

A : Maximum allowed Oxygen content in the inert gas on gas carriers is 5% by volume.

ELOE : What kind of damage can Ro-Ro cargoes sustain when in contact with fuel oil tank top plating?

A : Tyre damage

ELOE : What kind of damage can ro-ro cargoes sustain when loaded above fuel tanks?

A : Tyre damage



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

ELOE : What kind of damage is most likely when Ro-Ro cargoes come into contact with fuel oil spilt/left on RoRo decks ?

A : Tyre and bodywork damages

ELOQ : A sudden or gradual increase of the chloride content in the freshwater cooling indicates:

A : Leakages from seawater coolers

ELOW : The self contained air support system on a totally enclosed lifeboat is designed to provide safe and breathable air with the engine running for a minimum of how many minutes?

A : 10 minutes

ELPL : Which function is this operational amplifier circuit performing?

A : Differentiator

ELPO : When two ships are lying alongside each other in a ship to ship operation and one ship is lying at anchor, anchor watch duties must be carried out as follows:

A : Anchor watch responsibility rests with both vessels, each with its own watch

ELQP : Why did the pilot recommend the SE channel?

A : Because that was the safest passage considering the ship's draft.

ELTY : What should NOT be given to a patient suffering from diarrhea?

A : Milk

ELUK : What is the correct location of portable fire fighting equipment during loading/discharging operations?

A : One fire hose forward and aft of the manifold, and portable fire extinguisher near to ships manifold?

ELUR : How could you calculate the Stowage Factor of a cargo commodity after loading in a General Cargo vessel?

A : By dividing the volume of the space used by the tonnage of the commodity loaded

ELVJ : What system promises to bring major improvements to maritime Safety and Communications?

A : GMDSS

ELXB : On area A3 the function " Reception of shore to ship distress alerts" is mainly based on:

A : the use of HF DSC and INMARSAT C SAFETYNET



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

EMBD : Why is an inhibitor added into, for instance, butadiene?

A : To remove the oxygen and by that avoid a chemical reaction.

EMEV : What should you observe when patrolling public areas on board?

A : All abnormalities that may affect the safety/ security of passengers, crew and the ship

EMIR : Great care must be taken when manually paralleling two or more alternators. At which point would you engage the main circuit breaker of the incoming alternator when paralleling two alternators?

A : With the pointer of the synchroscope at 0° (12 O'clock) and both synchronizing lamps dark (off)

EMIR : Great care must be taken when manually parralling two or more alternators. At which point would you engage the main circuit breaker of the incoming alternator when paralleling two alternators?

A : With the pointer of the synchroscope at 0° (12 O'clock) and both synchronizing lamps dark (off)

EMKK : In what language/languages shall the fire control plans/folders (or copies of plans and folders) be? (SOLAS II-2/20.1)

A : The Flag State language with copies in English or French

EMKL : Which item among those below is included in the normal equipment of every lifeboat ?

A : tools for minor adjustments to the engine

EMLN : Which of the following duties shall be included in the "muster list" as being assigned to members of the crew ?

A : preparation and launching of the survival craft

EMMF : The ship has a right-handed propeller and is swinging to starboard when the engines are slow ahead and the rudder is to starboard. The engines are stopped and the rate of swing rapidly slows down. How could the swing to starboard be maintained without the ship making much headway.

A : Yes, by putting the rudder hard stb. it will shield waterflow to the stb. side of the propeller and vice versa to port, this will effect turning of the ship

EMON : On the average, how much long life milk would a crew of 30 men use in the course of 30 days?

A : 220 liter

EMRE : What is the meaning of this symbol ?

A : Lifejacket

EMSB : Disregarding extreme operating conditions, at what temperature should IFO 380 normally be maintained so as not to damage a bulk cargo of grain?

A : Between 35 and 40 degrees Celsius



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

EMSB : What should be done in preparation for loading cold rolled steel sheets in bulk carriers?

A : 16mm wire cables should be laid fore and aft over the tank top spaced 3m apart

EMUM : A data logger printout is being studied. It can be seen that at regular intervals the return air temperature increases significantly for short periods of time before returning to normal. What is the most likely cause of this occurrence?

A : Routine defrosting of the evaporator coils.

ENBF : What is the correct procedure when transferring (internal trimming) of oil cargo is necessary?

A : Obtain permission from charters and note procedures in oil record book and deck log

ENBF : What is the correct procedure when transferring of oil cargo is necessary?

A : Obtain permission from charters and note procedures in oil record book and deck log

ENCD : The ship is navigating in dense fog where the visibility is less than one mile. The Arpa radar is set on a range 12 miles on a course of 314 degrees and own ship has a vector as shown. What is the vector mode selected on the Arpa?

A : Have the engine ready for immediate manoeuvre and adjust speed for safe navigation

ENCX : After checked for open airway, given the first two inflations and checked the pulse to make sure that the heart is beating, what is the rate of inflations given until natural breathing is restored ?

A : 12 - 16 times per minute

ENGE : At what time must the required fixed fire detection and alarm systems with manually operated call points be in operation ?

A : At all times

ENHB : Your vessel is a tanker in ballast and the two vessels are interlocked after collision. You have already made clear that all people are well taken care of and you will try to separate the two vessels. What should be your greatest concern?

A : - The ships moving together in the swell/seaway will cause a spark and consequently an explosion. _____

ENHX : What is the difference between a PRESSURE SWITCH and a PRESSURE TRANSMITTER, if any?

A : The pressure switch has contact(s) that will change between open and closed

ENHX : What is the difference between a PRESSURE SWITCH and a PRESSURE TRANSMITTER, if any?

A : The pressure switch has contact(s) that will change between open and closed position. The pressure transmitter converts a pressure signal into an electric signal.

ENIY : MARPOL 73/78 - Annex IV. Prevention of Pollution by Sewage from ships. This annex is not yet in force, however, some Governments are practising these rules. What do you understand by the word "Sewage"?

A : Drainage/waste from toilets/urinals.



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

ENJG : How is the activation of any detector or manually operated call point of fixed fire- detection and fire-alarm systems to be indicated? (SOLAS II-2/13.1.4)

A : By visual and audible signal at the control panel and indicating units

ENJT : Every inflatable liferaft , inflatable lifejacket and hydrostatic release units shall be serviced:

A : Every 12 months.

ENLD : A ship in distress should transmit the appropriate alarm signal followed by the distress call and message on one or all of the international distress frequencies. Which of frequencies is in accordance with the present recommendations?

A : 500 kHz, 2182 kHz and 156.8 MHz

ENMD : Which of the following is a coast station MMSI ?

A : 2275300

ENPA : What should be done after discharging coal with a high sulphur content?

A : Areas of corrosion in the cargo holds should be noted

ENPA : What should be done after discharging coal with a high sulphur content from a bulk carrier?

A : Areas of corrosion in the cargo holds should be noted

ENYM : When using the echo sounder in a river the soundings indicated may be incorrect, what would be the most probable cause of the error?

A : The density of the water

EOBE : There are three levels of burning, namely:*Superficial *Intermediate*Deep burns (also called full-thickness burns) A large burn will almost certainly contain areas of all three grades. How many per cent of the body may be burned before the danger of lifethreatning shock occurs?

A : 15 percent.

EOBE : There are three levels of burning, namely:*Superficial *Intermediate*Deep burns (also called full-thickness burns) A large burn will almost certainly contain areas of all three grades. How many per cent of the body may be burned before the danger of lifethreatning shock occur?

A : 15 percent.

EOBS : What is the fat content of whole milk?

A : 3.5 - 3.9 %

EOCW : Why is it necessary to keep cargo and bunkerlines blanked off while not in use?

A : To avoid unexpected oilspill



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

EODR : On the figure 4 possible definitions of the term "ASTERN" are shown. Which one is the correct one?

A : Astern is defined as D on the figure

EOEQ : SOLAS regulations require surveys of ships to be carried out at certain times and at certain intervals. Which of the following surveys apply to passenger ships only?

A : Periodical survey every 12 months

EOHW : What name is given to the rotating jet water outlets on a tank-cleaning machine that is used on an oil tanker?

A : Nozzles.

EONQ : Which of the following detailed explanations should be mentioned in the Training Manual ?

A : How to recover survival craft and rescue boats including stowage and securing

EOOS : On a Container vessel, what can cause large loads in lashings when containers are secured to a lashing bridge?

A : The lashing bridge is fixed but the hatch covers move when the ship rolls and pitches, causing the lashings to go alternately slack and tight

EORC : At which level will the slop-system high level alarm sound ?

A : 98 %

EOSN : Which regulations apply to packaging materials consisting of wooden elements?

A : International Standards for Phytosanitary Measures (ISPM) Code

EOSN : Which regulations cover packaging materials consisting of wooden elements?

A : International Standards for Phytosanitary Measures (ISPM) Code

EOSU : Why is it necessary to control the rate at which iron ore is loaded?

A : So that the vessel can cope with de-ballasting operations

EOSU : Why is it necessary to control the rate at which iron ore is loaded on a Bulk Carrier?

A : So that the vessel can manage with de-ballasting operations

EOXS : If a boiler is smoking "black smoke" a possible cause can be

A : All alternatives



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

EOYL : How should the painter of a liferaft which is fitted with a hydrostatic release, be secured to the ship?

A : Secured via a weak link to a secure part of a ship

EPAE : Which item among those below is included in the normal equipment of every rescue boat ?

A : a searchlight which can work continuously for not less than 3 hours

EPAY : In which category of passengers do you think a woman who shows you a police badge might belong?

A : 30% who are rational

EPBT : Which of the following items is essential and should always be kept in stock?

A : Sugar

EPEH : By frequency is meant:

A : number of vibrations per unit of time

EPEJ : Which surveys does the MCA not delegate to classification societies?

A : Passenger ship initial surveys, Initial surveys of a Certificate of Fitness or International Noxious Liquid Substances Certificate and initial surveys for SEC or IOPP, and all radio surveys.

EPFC : If a ship in the MF-band wants to have a DSC-connection with a coast-station (no 'distress alert' or a test alert) the following frequencies are chosen:

A : TX: 2189.5 kHzRX: 2177.0 kHz

EPIM : Give the meaning of the following symbol:

A : location of embarkation ladder

EPTQ : What do the letters "TPC" stand
f o r ?

A : Tonnes per Centimetre.

EPUE : Some gas carriers are designed to carry both LPG and LEG. What is the design temperature on the cargo containment system on a LPG/LEG carrier?

A : Design temperature on the cargo containment system on a LPG/LEG carrier are -103oC

EPWO : Which one of the listed requirements regarding radiotelegraph installations for lifeboats do not correspond to present regulations?

A : Reserve accumulator battery for two hours normal use to be provided



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

EPWX : What problem is associated with fully loaded large ore carriers?

A : The minimum bow height, as required by SOLAS, cannot be maintained at sea due to squatting by the head

EPWX : What should the master know prior to loading iron ore?

A : The maximum angle of heel that will be caused by a shift of cargo

EPXN : What is the best method to use to remove heavy scale and fouling from the plates of a heat exchanger?

A : Put the plates in water with qualified cleaning chemicals, and use soft brush, or high pressure cleaner with care.

EPXN : What is the best method to use to remove heavy scale and fouling from the plates of a heat exchanger?

A : Soak the plates in a recommended cleaning solution and then use a soft brush or

EPYD : What does the term cold spotting refer to in relation to LNG cargo carriage?

A : Visually checking the inner hull during the loaded passage to detect leakage.

EPYD : What is "cold spotting"?

A : To physically check the inner hull during the loaded passage.

EPYF : The diagram shows a thyristor (SCR) with a Resistor and Capacitor (R and C). The RC network shown, performs which of the following applications?

A : Divert fast voltage spikes which may lead to uncontrolled switch on.

EPYF : The RC network shown, performs which of the following applications?

A : Divert fast voltage spikes which may lead to uncontrolled switch on.

EQAW : What kind of safety equipment should be in place in connection with a grinding wheel?

A : Goggles and shield.

EQBT : Which of the following international regulations is normally used when handling dangerous goods?

A : IMDG code

EQBV : How many buoyant smoke signals are carried in each liferaft?

A : 2



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

EQEE : Does MARPOL apply to gas carriers?

A : Yes.

EQEX : When working in parts of the inert gas system such as the scrubber or deck water seal, what procedure must be followed?

A : Enclosed space entry.

EQGB : Is it required that the PA-system (Public Address) is connected to a back-up power supply?

A : Yes, the public address system shall be connected to the emergency source of power

EQGB : Is it required that the PA-system (Public Address) is connected to a back-up power supply?

A : Yes, the public address system shall be connected to the emergency source of power

EQLQ : What do you understand by the initials S.W.L. when applied to a crane?

A : The load that can be safely lifted during normal working conditions.

EQOG : What is the purpose of the air distributor in a diesel engine air start system?

A : To ensure the cylinder air start valves operate in the correct sequence and for the correct period.

EQPD : Which of the following letter combinations represents a level indicating controller on a process and instrumentation diagram

A : LIC

EQPD : Which of the following letter combinations represents a level indicating controller on a process and instrumentation diagram

A : LIC

EQQS : If a vessel's Longitudinal Centre of Floatation (LCF) is 60.582 in saltwater, what would be her LCF in water of density 1.015 T/m³?

A : 60.582m

EQQS : When a general cargo ship carries timber in the hold and on deck, what are the major stability consideration and dangers?

A : The loss of a positive GM due to bunkers and water being consumed and water absorption by deck cargo

EQRN : From the pressure gauges shown can you tell what is the oil pressure in a freon compressor?

A : 2.0 bar



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

EQRQ : What shape of hull would you say a course unstable ship would have?

A : A ship with a length to beam ratio less than 5.5

EQTB : What is required in accordance with IMOs requirements regarding cargo segregation?

A : 2 valves

EQTD : Which one of the listed requirements regarding the stowage of lifeboats and liferafts do not correspond to present regulations? (SOLAS II/13.3 - 13.6)

A : Liferafts intended for throw-overboard launching shall be stowed amidships secured to means for transfer to either side

EQYE : Which of the following duties shall be included in the "muster list" as being assigned to crewmembers in relation to passengers ?

A : warning the passenger

ERAT : What is the main quencher for an oil tanker?

A : Foam.

ERIM : If water contamination occurs in the crankcase oil of an auxiliary engine the oil viscosity will:

A : Increase.

ERJE : Where would the Official number be "carved" on the ship?

A : On the main beam

ERJX : On a RoRo vessel, which of these statements is correct?

A : A vessel being seaworthy implies the cargo is safely stowed and lashed

ERJX : Which of these statements is correct?

A : Seaworthiness implies cargoworthiness

ERKE : What do iron ore, flourspar, fishmeal, lead concentrate and cement copper have in common?

A : These are cargoes that may liquefy

ERLQ : In addition to personal equipment a complete set of firemans outfit also comprises a breathing apparatus and a fireproof lifeline. How many complete sets of firemans outfit is to be carried by ships carrying dangerous goods?

A : At least four sets or more depending on the type and the size of the vessel



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

ERNF : Which of the equipment listed is not included in the firemans personal equipment? (SOLAS II-2/17.1.1)

A : Leather safety boots and gloves

ERSH : What would result from contact with liquid ammonia?

A : Loss of eyesight

ERXD : Shall the seafarer receive a statement showing the calculation of his wages?

A : Yes, showing how it has been calculated and with possible deductions.

ERXJ : When an air compressor is going to be started it is important that the compressor is started with the "blow off" valves open. Why?

A : To ensure that we do not have any water assembly in the cylinders when the compressor start.

ESCJ : Your vessel is transiting the Panama Canal. Which manning level is applicable?

A : Sufficiently manned with officers and crew to permit safe handling of vessel

ESCK : The earth lamps in a 3-phase system indicate as follows: Red= bright Yellow= dark Blue= dim

A : no fault - hard earth - light earth

ESCK : The earth lamps in a 3-phase system indicate as follows: Red= bright Yellow= dark Blue= dim . Which fault condition shown as red - yellow - blue is correct?

A : no fault - hard earth - light earth

ESEA : You have checked the oil viscosity in an auxiliary engine with the viscosity test kit. The result shows that the viscosity is low. What will You do?

A : Clean the system and change the oil.

ESFO : This is a typical emitter follower. What is the main benefit obtained by use of an emitter follower?

A : The input impedance is made much larger than the output impedance

ESFO : This is a typical emitter follower. What is the main reason for use of an emitter follower?

A : The input impedance is made much larger than the output impedance

ESGN : Which part of the human body out of the list given after is not considered to allow maximum heat exchange with the surrounding fluid (air/water)?

A : feet



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

ESGN : Which part of the human body out of the list given below is not considered to allow maximum heat exchange with the surrounding fluid (air/water)?

A : feet

ESHH : Which item among those below is included in the normal equipment of every lifeboat ?

A : two buoyant rescue quoits with buoyant line

ESIY : You have discovered a small leak of oil at the manifold during discharging. What is the first thing you should do?

A : Call immediately the person in charge.

ESIY : You have discovered a small leak of oil at the manifold during discharging. What is your first action?

A : Call immediately the person in charge.

ESIY : You have discovered a small leak of oil at the manifold during the discharge of an oil cargo. What is the first thing you should do?

A : Call immediately the person in charge.

ESLC : How should caterpillar crawlers stowed on hatch covers be secured?

A : By means of wire ropes or chains secured to the hatch covers and to the main deck from all four sides of the unit

ESLC : On a RoRo vessel, how should caterpillar crawlers stowed on hatch covers be secured?

A : By means of wire ropes or chains secured to the hatch covers and to the main deck from all four sides of the unit

ESMG : Most search patterns consists of

A : Parallel track covering a rectangular area

ESMG : Most search patterns consists of:

A : Parallel track covering a rectangular area

ESOT : Under the regulations of GMDSS channel 70 is used for:

A : distress alerting

ESOV : The MERSAR is:

A : a book of directions for search and rescue at sea



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

ESPO : The muster list must be prepared:

A : at any moment before the ship proceeds to sea

ESTX : What name is given to the special pipeline arrangement that sends the expelled gas vapours from a ships cargo tank back to shore during loading?

A : Vapour recovery (or return) system.

ESTX : You are loading a cargo of Butyl Acrylate in several tanks. There is a special closed pipeline arrangement that sends the vapours, expelled as the tanks are filled, back to shore. What is this arrangement known as?

A : The Vapour Recovery (or Return) System.

ESTX : You are loading a cargo of Butyl Acrylate in several tanks. There is a special closed pipeline arrangement that sends the vapours, expelled as the tanks are filled, back to shore. What name is given to this arrangement?

A : The Vapour Recovery (or Return) System.

ESUM : When using ejector for stripping, in what order will you open the valves?

A : All valves on the delivery side and adjust the propellant pressure.

ETBH : The automatic voltage regulator is used to control the output voltage of the alternator at varying load conditions by:

A : Varying the excitation field strength by regulating excitation voltage/current

ETBH : The automatic voltage regulator is used to control the output voltage of the alternator at varying load conditions by which of the alternatives?

A : Varying the excitation field strength by regulating excitation voltage/current

ETEE : Prior to ordering stores for any department;

A : The store inventory should be checked so that you order only the items required

ETES : When is a vessel deemed to be an overtaking vessel?

A : When coming up with another vessel from a direction more than 22.5 degrees abaft her beam

ETJY : What do we mean with LEL when measure the atmosphere?

A : LEL is lower explosive limit

ETKK : Why do we clean?

A : Because if we don't clean it will influence safety, economy, our own well-being and maintenance.



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

ETLE : To help avoid accidental use of wrong cleaning products what precautions should be taken when stored?

A : Different products to be placed on separated and labelled shelves.

ETMC : Which section in the provision in question prescribes the obligation to furnish a guarantee or take out insurance relating to compensation in the event of occupational injury or the employers insolvency?

A : Section 32

ETQS : What is the endless piece of rope used extensively for the slinging of cases or bales, called?

A : Bale sling strop

ETSY : The INMARSAT B Mobile Earth Station Identification Number (IMN) consists of:

A : nine digits, beginning by 3

ETTX : Which class of emission is used for ARQ NBDP transmissions ?

A : F1B

ETXD : During a helicopter evacuation, the helicopter lowers his winch wire to the deck. Which of the following should NOT be done with the winch wire?

A : All of the mentioned actions

ETXE : The powersupply to the harddisk of a personal computer consists normally of two voltages. Which?

A : 5 V and 12 V

ETYX : When a large motor load suddenly is disconnected from the switchboard and the generator is AVR controlled, the voltage will:

A : Initially rise, then reset to the set value.

ETYX : When a large motor load suddenly is disconnected from the switchboard and the generator is AVR controlled, the voltage will do what?

A : Initially rise, then reset to the set value.

ETYX : When a large motor load suddenly is disconnected from the switchboard and the generator is AVR controlled, what will the output voltage do?

A : Initially rise, then reset to the set value.

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CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

EUAP : A bulk vessel is loading to summer load draught of 10.00 metres; the present draught amidships are 9.96 metres port and 9.98 metres to starboard; The sinkage to maximum loading is?

A : The sinkage allowed is 3 centimetres (0.03 metres)

EUAP : A bulk vessel is loading to summer load draught of 10.00 metres; the present draught amidships are 9.96 metres port and 9.98 metres to starboard; The sinkage to maximum loading is?

A : The sinkage allowed is 3 centimetres (0.03 metres)

EUCB : An engine room rating is given the task of retightening the flanges of a pipe that has been replaced in the engine room. Which of the following tightening procedures should be followed?

A : Gradually tighten all of the bolts working diagonally across and around the flange.

EUCH : What is false regarding the function : " Transmission and reception of signals for locating "

A : On area A3 and A4 this function is based on the use of SRSAT COSPAS Epirb

EUDT : What surveys are required for the Safety Management Certificate

A : Initial and intermediate

EUDV : How often shall crew members participate in fire drills?

A : Once every month

EUEQ : What is a low location lightning system?

A : A light system powered by battery or fluorescent signs mounted at deck level indicating the way to the nearest exit

EUSV : You have abandoned ship in a liferaft. Which of the following actions should you take?

A : Organize a lookout system and join up with other survival craft if possible. You should also stream the sea anchor

EUTX : You have just synchronized a second alternator onto the main switchboard, and want to equally share the load between the "on" and incoming alternators. What would you do first?

A : Raise the governor speed controller of the incoming alternator and reduce the governor speed controller of the alternator already on the switchboard

EUTX : You have just synchronized a second alternator onto the main switchboard, and want to equally share the load between the "running" and incoming alternators. What would you do first?

A : Raise the governor speed controller of the incoming alternator and reduce the governor speed controller of the alternator already on the switchboard

EUUM : Welding and burning are among the factors which give the highest risk of fire on board ships. Precaution has to be taken to avoid this risk. Which of the following safety rules may be regarded as the most important?

A : The place of welding-work to be cleaned and all unnecessary objects to be removed.



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

EUUN : Chemical tankers are built with either "gravity" or "pressure" type cargo tanks. A "gravity" tank is one having a design pressure at the top of the tank of :

A : 0.7 bar?

EUUQ : The instrument most widely used for testing of semiconductor diodes is

A : Ohmmeter

EUWE : How many buoyant smoke signals are carried in each liferaft with SOLAS B pack?

A : 1

EUXV : What will a cadet find in the engine room store?

A : He will find new brake bands in the engine store

EUYK : A conventional reefer vessel is fitted with hydraulically operated hatches in the tween decks. Complete the following statement from the options given. Careful maintenance of the hydraulic system is important....

A : ..to ensure that there are no oil leaks which may contaminate the cargo.

EVBH : What might safely be used to prevent a load swinging when lifted by a crane?

A : Guide or tag lines, tended from a safe location.

EVGT : How often shall drills for the operation of watertight doors, side scuttles, valves and closing mechanism of scuppers, ash-chutes and rubbish chutes take place in passenger ships?

A : Weekly

EVKX : What would be the most probable cause of light, smoky exhaust from a diesel engine?

A : Water carry over from charge air cooler to engine cylinders.

EVNS : What are the type of signal output is derived from a NiCr/Ni thermocouple?

A : mV.

EVNT : What is the purpose of the function "Anti-clutter" sea on the radar?

A : Reduce the sea echoes.

EVNT : What is the purpose of the function "Anti sea clutter" on the radar?

A : Reduce the sea echoes.



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

EVPK : During loading operations on conventional reefer vessels steel sheets are sometimes placed in the hatch square to avoid damage to the gratings in the square. Select, from the options given, the likely consequence of leaving the steel plates in the hatch square.

A : The steel plates may block the flow of refrigerated air through the cargo.

EVRI : To allow efficient pumping of aromatic Crude Oil cargoes, they are usually heated to reduce their viscosity. What is the ideal maximum viscosity that is normally achieved for this purpose?

A : 250 cSt (250 mm²/s)

EVERY : What is the minimum supply pressure on the COW lines?

A : As stated in the COW manual

EVVG : Which item among those below is included in the normal equipment of every rescue boat ?

A : an efficient radar reflector

EVVI : Apart from temperature there are few differences between carrying cargoes of chilled meat, minus 1 degree Celsius, and frozen meat, minus 18 degrees Celsius. A key difference is that for frozen meat the cooling fans are operated at half speed or some are switched off whereas for chilled meat the fans are run constantly at full speed. Select, from the options given, the main reason for this difference in fan operation.

A : The chilled meat is more sensitive to damage and therefore tighter temperature control is necessary.

EWBA : What action should be taken if machinery does not function properly?

A : The condition shall be noted and plans for further actions developed.

EWBC : Which of the following is a summary of the features of a "controlled tank venting system"?

A : PV valves are fitted to limit the pressure or vacuum in the tank; no shut-off valves may be fitted either above or below the PV valves; provision may be made to bypass the PV valves under cer

EWBC : Which of the following is a summary of the features of a "controlled tank venting system" as may be found on a chemical tanker?

A : PV valves are fitted to limit the pressure or vacuum in the tank; no shut-off valves may be fitted either above or below the PV valves; provision may be made to bypass the PV valves under cer

EWDH : On a RoRo vessel, why is it considered good practice to have a duty crew member standing by the loading ramp?

A : To record the nature and extent of any pre-loading damage to cargo

EWDH : Why is it considered good practice to have a duty crew member stand by the loading ramp?

A : To record the nature and extent of any pre-loading damage to cargo

EWGO : A bulk cargo declaration shows that the iron ore to be loaded has an angle of repose of 45 degrees; what does this indicate?

A : The cargo pile is stable and unlikely to shift



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

EWHS : Instructions for "Preparation for welding or hot work in cargo tanks" is laid down by the Norwegian Maritime Directorate. Which of the following requirements regarding welding or hot work corresponds to these instructions?

A : When the tank has been satisfactory cleaned there shall be a 24 hour quarantine. Ventilation to be stopped and gas levels measured every second hour.

EWIQ : When passenger ships are engaged on international voyages (except for short ones) musters of the passengers must be performed within

A : 24h after their embarkation

EWIQ : When passenger ships are engaged on international voyages (except for short ones) musters of the passengers must be performed within:

A : 24h after their embarkation

EWKF : What will be the probably outcome if the amplification is set to high on the controller

A : The process will oscillate and get out of control

EWMY : Before engaging the Turning Gear, precautions should be taken to:

A : Shut off the starting air supply and open the indicator cocks

EWPK : Which separator operation conditions should be avoided?

A : Dry running of the pump, high temperature of the contents and various flowrate.

EWPL : The main engine is running steady. What is the normal slow down temperature for the main bearing metal "Oil outlet temperature"?

A : 70° C

EWRW : A self contained breathing apparatus should contain at least 1200 litres of air. How long should this last for a normal person who is not carrying out hard work?

A : 30 minutes

EWUJ : A satellite receives the transmissions of a 1,6 GHz Inmarsat EPIRB. The transmissions of this EPIRB will be:

A : exclusively past to a ground-station between 70 degrees N and 70 degrees S

EWUL : Give the meaning of this symbol:

A : lifebuoy with light

EWVA : How can the master ensure obedience?

A : He shall ensure obedience by the use of force if he finds it necessary, but not use harsher means than the circumstances make necessary.



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

EXCO : Which of the following is a INMARSAT A Mobile Earth Station Identification Number (IMN)?

A : 122700

EXDB : A mixed deck cargo is to be loaded on a General Cargo Vessel; what are some of the important checks to be made by the Officer of the Watch?

A : All fire hydrants and sounding pipes must be accessible

EXDR : On board one can use the reflections in the ionosphere by the right choice of:

A : the time of transmission

EXEG : Give the meaning of the following symbol

A : Wheeled fire extinguisher

EXGV : To avoid overbunkering and oil spill, it is very important that we closely monitor the progress of the bunkering operation. What is the safest method to use to minimise the risk of overflow and spillage?

A : A combination of ullage soundings and readings from the remote gauges

EXGV : To avoid overbunkering and oil spill, it is very important that we keep a close monitoring of the bunkering progress, and this is done by sounding and calculations, the most reliable way is:

A : A combination of ullage soundings and readings from the remote gauges

EXHS : What precaution is to be taken when the Engineer on Duty is entering an UMS-mode operated engine room due to an alarm or due to a scheduled routine check?

A : Switch the UMS selector switch to manual mode and engage the "dead man alarm"

EXHS : What precaution is to be taken when the Engineer on Duty is entering an UMS-mode operated engine room due to an alarm or due to a scheduled routine check?

A : Notify the Bridge and switch the UMS selector switch to manual mode and engage the "dead man alarm"

EXIH : A vessel is carrying a refrigerated cargo under controlled atmosphere (CA). From the options given select the most appropriate degree of opening of the air change vents while operating under CA.

A : 0%

EXIL : When preparing a working plan for cleaning personnel, what is the most important issue?

A : The plan must show where to clean every day and where/when periodically cleaning should be done.

EXJL : If a casualty has no pulse, the first aider must immediately:

A : Start heart compression and artificial respiration



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

EXKB : Which part of the crankshaft of a modern large two stroke diesel engine is most likely to be the origin point for crack initiation during service and therefore needs the greatest attention during maintenance inspection?

A : The fillet radii

EXLB : What should you ensure prior to closing hatch covers when preparing to sail on a General Cargo vessel?

A : That all track ways are clear of obstructions

EXNB : On a Container vessel, what causes shock loads in a container lashing system?

A : Loose cargo lashings

EXNB : What causes shock loads in a container lashing system?

A : Loose cargo lashings

EXNB : Where would you expect to find sacrificial exchangeable wear plates?

A : At the base of twistlocks

EXUJ : What should the Third Officer do, if he finds something missing from a lifeboat?

A : If he finds something missing from a lifeboat, the Third Officer should notify the Chief

EYCQ : Before leaving the machinery spaces of a UMS vessel after routine watchkeeping rounds in the evening, the duty engineer inspects the doors to Fuel Oil Treatment rooms covered by a fixed fire fighting installation. For what purpose does he do this?

A : To make sure that they are properly closed with the self closing device so that any fire is contained and the extinguishing medium can be released without delay.

EYCQ : Before leaving the machinery spaces of a UMS vessel after routine watchkeeping rounds in the evening, the duty engineer inspects the doors to Fuel Oil Treatment rooms covered by a fixed fire fighting installation. For what purpose does he do this?

A : Close them to prevent the spread of fire, and allow the extinguishant to be released without time wasting.

EYCQ : Before leaving the machinery spaces of a UMS vessel after routine watchkeeping rounds in the evening, the duty engineer inspects the doors to Fuel Oil Treatment rooms which are covered by a fixed fire fighting installation. For what purpose does he do this?

A : Close them to prevent the spread of fire, and allow the extinguishant to be released without time wasting.

EYCQ : Before leaving the machinery spaces of a UMS vessel after routine watchkeeping rounds in the evening, the duty engineer inspects the doors to Fuel Oil Treatment rooms which are covered by a fixed fire fighting installation. For what purpose does he do this?

A : To make sure that they are properly closed with the self closing device so that any fire is contained and the extinguishing medium can be released without delay.

EYFC : Modern slow speed, two stroke diesel engines often have locating pins or pegs to keep the piston rings in a fixed position. Why is this arrangement used?

A : It avoids the risk of the ends of the piston rings being forced out by the gas pressure and



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

EYFY : Two factors are important before starting the washing machine, name them.

A : That correct temperature and washing products are chosen for the linen to be washed.

EYJD : What is the "international shore connection" used for?

A : To connect the ship fire main to the shore lines

EYJG : The authority to order to use of distress signals or distress alerts is:

A : only with the master

EYKA : Which one of the following materials belong to Class 4.1, according to the IMDG code?

A : Solid combustibles

EYMK : In which Part(s) do you find regulations relating to supervision of maritime service in the book "Excerpts from the Norwegian Maritime Code of 24 June, 1994, No. 39"?

A : In Part 16.

EYMK : In which Part(s) do you find regulations relating to supervision of maritime service in the book "Excerpts from the Norwegian Passenger and Cargo Ship Legislation, etc"?

A : In Part 16.

EYMK : In which Part(s) do you find regulations relating to supervision of maritime service in the book "Excerpts from the Norwegian Ship Control Legislation"?

A : In Part 16.

EYSQ : Which class of emission is used for FEC NBDP transmissions ?

A : F1B

EYTB : What would you do if you had just started loading, but no cargo seemed to be coming into the tank where you expected it?

A : Stop cargo - notify the Duty Officer and / or the terminal dependng on the agreed communication procedure. Re-check the lines, valves and connections carefully, bearing in mind that there mig

EYTB : You have just started to load Dicyclopentadiene to 5 port and starboard cargo tanks, but no cargo seems to be coming into the tanks. What will you do?

A : Stop cargo - notify the Duty Officer and / or the terminal dependng on the agreed communication procedure. Re-check the lines, valves and connections carefully, bearing in mind that there mig

FAIA : What is the intention of the Safety Meeting?

A : The intention of the meeting is to inform and train the crew in safety matters and to get the crew to participate in discussion and make suggestion for improvement.



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

FAIA : Which of the following hazard risks generally apply to the carriage and handling of LNG and its vapours?

A : Flammable, Asphyxia and Frostbite

FAPF : What IMO conventions take care of the human safety at sea?

A : It is the SOLAS conventions that take care of the human safety at sea

FATM : Why is it important to slow down the main engine RPM while water-washing the turbocharger?

A : Not to damage the rotor blades

FAUG : You are to turn your vessel in a narrow canal by use of two tugs with the same power. The wind varies in the range moderate/strong. Where/how would you use the tugs?

A : Pushing, made fast in the vessel

FAVA : The ship is drifting in the open sea with a temporary engine breakdown. The ship is equipped with GPS navigation equipment. What should the bridge Officer of the Watch do in this situation?

A : Use the opportunity to plot direction and rate of drift for later use

FBBB : Whilst in the Engine room you hear the CO2 release alarm, what action if any should you take.

A : Leave the engine room as quickly as possible, closing all doors behind you.

FBCX : What is often done prior to loading grain in cargo holds which are sweating?

A : Grain dust is blown into all parts of the hold via the grain elevator

FBMV : Every inflatable liferaft , inflatable lifejacket and hydrostatic release units shall be serviced:

A : Every 12 months.

FBNL : What comprises an INMARSAT-A subscriber number?

A : Seven digits beginning with a one (1).

FBRW : On a container vessel, what should be referred to when taking action to deal with a cargo spillage under-deck?

A : The EmS Guide

FBRW : What must a seafarer refer to when taking action to stop cargo spillage or fighting fires involving dangerous goods on board?

A : Emergency Schedules in the IMDG Code



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

FBRW : What should be referred to when taking action to stop cargo spillage under-deck?

A : The EmS Guide

FBSH : What should be done after departing loading port, at intervals during the voyage and prior to discharging port ?

A : Inspect/measure all areas surrounding loaded tanks for leakage. Result to be recorded in the deck log book.

FBUX : Give the meaning of this symbol:

A : lifebuoy with light and smoke

FBVA : What is the meaning of this symbol ?

A : Muster station

FBYG : What does MARVS mean on a cargo tank?

A : Maximum Allowed Relieve Valve Setting.

FCFD : A 450 volt, 859 kW rated generator has not been in operation for several weeks. Prior to starting, insulation resistance readings are taken. The minimum acceptable insulation resistance reading on the main stator winding to allow you to proceed with running the generator is:

A : 10 000 000 Ohms

FCGA : A new gasket has been fitted to the manhole cover of a ballast tank. Which of the options given would be a suitable test that the new gasket is correctly fitted?

A : Carry out a hose test on the manhole cover.

FCGX : You have to choose one of the following instruments for measuring pressure in an air bottle in measuring range 0 - 35 BAR. Which instrument will you install?

A : Bourdon Tube manometer

FCGX : You have to choose one of the following instruments for measuring pressure in an air bottle in measuring range 0 - 35 BAR. Which instrument would you install?

A : Bourdon Tube manometer

FCHN : How often should the lifeboat wire falls be turned and renewed?

A : Turned at intervals of not more than 30 months and renewed every 5 years

FCHS : The correct time to synchronise is usually taken to be when the synchroscope reaches the "5 to 12" position and is rotating slowly clockwise. This to allow for:

A : Circuit breaker operating time



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

FCHS : The correct time to synchronise is usually taken to be when the synchroscope reaches the "5 to 12" position. This to allow for:

A : Circuit breaker operating time

FCHU : Consider a vessel with a 6 cylinder main diesel engine operating with one cylinder out of operation. What would you expect to be the approximate maximum reduced engine load to allow safe emergency operation in this condition?

A : 70 % of MCR

FCIN : In maritime communication two international treaties are primarily involved. They are:

A : The IMO at London and the ITU at Geneva

FCJC : Read the text in the picture before answering the question. What is the fundamental requirement relating to the older ships, which are still in service?

A : Because we need old ships in good condition to meet the world's demand for transportation.

FCNJ : When having a fire alarm during normal working hours, what immediate actions should be taken?

A : Act according to instruction given in the fire plan.

FCQY : For a "distress alert" via the DSC, the MF-band is used in the frequencies:

A : TX: 2187.5 kHzRX: 2187.5 kHz

FCWR : The method of extinction by smothering is based on this basis;

A : The fire is extinguished by avoiding the contact between the fuel vapours and the oxygen

FDAX : Give the meaning of the following symbol

A : Heat detector

FDBR : How many grams of skinned and boned fish fillet would you calculate per person for boiled/fried fish dishes?

A : 200 gr

FDBR : How many grams of skinned and boned fish fillet would you estimate per person for boiled/fried fish dishes?

A : 200 gr

FDCL : Which type instrument is shown on this picture?

A : Electric Contact manometer



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

FDCQ : Give the meaning of the following symbol

A : Foam release station

FDDY : LPG carriers rely heavily on the compressors fitted as part of the reliquefaction plant. Screw and reciprocating types are widely used. Which type of reciprocating compressor is most common as a cargo compressor?

A : Double acting, single stage, oil free compressor.

FDDY : Which type of piston compressor is most common as a cargo compressor?

A : Double acting oil free piston compressor.

FDFB : Which of the following ship motions complements the natural springing tendency of Ro-Ro cargoes?

A : Heaving

FDFL : What height of water above the inner bottom will activate the cargo hold high level alarm

A : Not more than 2.0m

FDFL : What height of water above the inner bottom will activate the cargo hold high level alarm on a Bulk Carrier

A : Any height above 2.0m

FDGW : What must be ensured immediately after lowering and securing the stern ramp?

A : Control levers should be locked in the 'neutral' position

FDGW : What must be ensured immediately after lowering and securing the stern ramp on a RoRo vessel?

A : Control levers should be locked in the 'neutral' position

FDHM : Why do we use cylinder oil?

A : to neutralize the sulfur and get a lubricating oil film between piston rings and liner

FDIH : A centrifugal pump gland has been repacked following overhaul of the pump. Which of the procedures given in the options is the correct method to ensure the pump shaft does not overheat when the pump is operating?

A : Gradually tighten the gland follower with the pump running until leakage at the gland stops.

FDIW : What is the IMSBC Code?

A : The International Maritime Solid Bulk Cargo Code published by IMO which must be carried by all bulk carriers



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

FDJI : What is the two letter signal, to be used by flags, radiotelephony or radiotelegraphy, meaning "Calling All Ships".

A : CQ

FDOF : When a character in the NAVTEX message sent is not received in the proper way:

A : nothing or a special characters will be printed

FDYB : In addition to cargo & machinery spaces which other spaces if any have to be fitted with an approved fixed fire fighting system on cargo ships?

A : Paint store

FDYB : In addition to cargo & machinery spaces, which other spaces, if any, have to be fitted with an approved fixed fire fighting system on General Cargo ships?

A : Paint store

FECM : For how long and at what speed is a fully loaded lifeboat designed to operate in calm weather ?

A : 6 knots for 24 hours

FEIA : Is there any particular procedure to be followed when dismissing a seafarer?

A : A hearing shall be held before a committee on board.

FEPX : The driving water pressure is very important to maintain good efficiency when using the ejector for stripping. Where can you find information on board telling you the recommended pressure?

A : The ship's cow manual and ejector's performance curves.

FEQX : Which of the following groups of chemical cargoes is particularly susceptible to polymerisation, especially through exposure to heat?

A : Monomers.

FEUF : What are the people doing in the attached image?

A : The people in the attached image are hosing down the cargo hold

FEUF : What are the people probably doing in the picture?

A : The people are hosing down the cargo hold to clean it.

FEUP : A lifebuoy must have an inner diameter of:

A : not less than 400 mm



FEUW : Onboard training should be organised in such a way that:

A : It is an integral part of the overall training plan

FEVA : What is "UNDER KEEL CLEARANCE", in the figure?

A : Under Keel Clearance is indicated by C, in the figure

FEWC : The effect of reflection of the radio waves in the ionosphere on the range depends on:

A : the amount of ionisation

FEWH : You are onboard a vessel enroute off the West African coast. How far off the coast do you have to be, to be able to dump a mixture of food waste, glass bottles and floating packing materials ?

A : 25 nautical miles off the coast

FEWL : Which herb, native to the Mediterranean region, has green spiky leaves and is often used in the preparation of lamb dishes?

A : Tarragon

FEFN : If Master finds reason to doubt whether the agent is giving the vessels interest full and proper attention he should:

A : Investigate the matter carefully and report the findings to the company

FEYS : Some ships generate electrical power at 440 Volts, but then step up this voltage to supply specific electrical equipment. One common example, may be to feed a large bow thruster. Why is this done?

A : A large bow thruster will draw very large currents at low voltage. Being typically remote from the generator, significant voltage drops would occur at low voltage.

FFBP : When carrying a cargo in a tank which not requires any heating, what should be done with the heating coils prior loading ?

A : The should be blown completely dry by the use of air or nitrogen and then blanked.

FFFR : All designated SAR aircraft and civil aircraft carry equipment operating on the international aeronautical distress frequencies (amplitude modulation). The aeronautical distress frequencies are?

A : 121,3 MHz and/or 243,0 MHz

FFFU : Use of and is strictly prohibited onthe ro-ro deck, signs shall be displayed

A : Naked lights and Smoking

FFMF : If the temperature increase, what will happen with the interface in the bowl?

A : Interface towards center.



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

FFNE : It is required that a crewman enters a refrigerated compartment containing produce at minus 60 degrees Celsius. Which of the items of personal protective equipment given in the options is the most important for the crewman to wear?

A : Insulated gloves.

FFRC : If Mouth - to - Mouth (M-T-M) ventilation by itself is unsuccessful and the casualty's heart stops, or has stopped beating, you must perform External Chest Compression (ECC) in conjunction with M-T-M. What is the complete rate when performing ECC?

A : Complete 15 compressions at the rate of 80 compressions per minute

FFRK : Instructions for onboard maintenance of life-saving appliances shall be easily understood and illustrated wherever possible. Which of the following items do not necessarily have to be included in the instructions according to present regulations?

A : Check list for periodic inspections

FFSG : Injuries resulting from slips and falls constitute the largest percentage of accidents that occur in the catering department. What shall be done to reduce this high accident rate?

A : Keep the floors and decks free from fat and grease.

FFSG : Injuries resulting from slips and falls constitute the largest percentage of accidents that occur in the catering department. What should be done to reduce this high accident rate?

A : Keep the floors and decks free from fat and grease.

FFSU : If you have an overflow to deck, and the result is pollution to the environment, what should you do?

A : Immediately notify the captain so he can notify the proper authorities, so the pollution can be dealt with by professionals

FFTA : What arrangement may be installed in passenger ships to reduce unsymmetrical flooding in damaged condition?

A : Cross flooding arrangement

FFTU : Which type of portable lighting may be used to enter a compartment on a tank barge which is NOT gas-free?

A : An explosion-proof, self-contained, battery-fed lamp

FFVS : Parallel sweep search in a co-ordinated manner is achieved when?

A : All facilities proceed with same speed

FFYR : According to the rule of GMDSS, channel 70 is used for:

A : alerting

FFYS : The person charged with radio distress traffic must be referred to in:

A : the ship's radio log



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

FGBH : Which one of the listed requirements regarding the launching and recovery arrangements for rescue boats corresponds to present SOLAS regulations?

A : Rapid recovery shall be possible with the boat's full complement of persons and

FGBH : Which one of the listed requirements regarding the launching and recovery arrangements for rescue boats corresponds to present SOLAS regulations?

A : Rapid recovery shall be possible with the boat's full complement of persons and equipment.

FGCY : Which one of the following methods can be adopted for the internal divisional bulkheading of the accommodation and service spaces of a cargo ship?

A : All these methods can be adopted

FGDL : What is the value of GZ at angles of heel greater than 5 degrees?

A : $KN - KG \times \sin$ angle of list

FGDL : What is the value of the GZ lever at small angles of heel on a General Cargo Vessel?

A : $KM - KG \times \sin$ angle of heel

FGEQ : Which of the following statements applies to fire doors in main vertical zone bulkheads and stairway enclosures in passenger ships?

A : All the mentioned alternatives

FGEQ : Which of the following statements applies to fire doors in main vertical zone bulkheads and stairway enclosures in passenger ships?

A : All the alternatives are correct

FGFD : What must be ensured at the commencement of cargo operations?

A : That CO₂ gas lines to each cargo hold are clear

FGFD : What must be ensured at the commencement of cargo operations, on a general cargo vessel?

A : That the carbon dioxide gas lines to each cargo hold are clear

FGFD : What must be ensured at the commencement of cargo operations on a General Cargo Vessel?

A : That CO₂ gas lines to each cargo hold are clear

FGHR : On a RoRo vessel, what are sea sloshing forces proportional to?

A : The overall height of deck cargoes



FGHR : What are sea sloshing forces proportional to?

A : The overall height of deck cargoes

FGHR : Which of these plans is required to be permanently exhibited or readily available on the navigation bridge?

A : For each deck and hold, a plan showing the openings, boundaries of watertight compartments, means of closure and arrangements for the correction of list due to flooding

FGKN : Why is ethylene glycol added to the L.P.G. compressor cooling water system?

A : To prevent the water from freezing.

FGNX : Who is responsible for maintaining the vessels structural strenght?

A : The Master

FGOP : A strain occurs when a muscle or group of muscles is over- stretched and possibly torn, by violent or sudden movement. Strain can be caused by lifting heavy weights incorrectly. The treatment of strain may be remembered as the word RICE.What is RICE an abbreviation for?

A : Rest, Ice, Compression, Elevation.

FGPT : What must be regularly checked with the emergency battery of a GMDSS portophone:

A : the date when the battery must be replaced

FGRB : There has been an accident on board. Urgent medical advice is needed. The call is preceded by:

A : PAN PAN (3x)

FGSD : Which item among those below is included in the normal equipment of every lifeboat ?

A : a rustproof graduated drinking vessel

FGVB : Which are the main components in Alkaline cleaning products?

A : Lye, metasilicate and soda ash.

FGVG : VHF channel 15 is:

A : Inter-ship channel

FGWA : Do regulations on the scope of the Seamens Act apply:

A : to both passengers and cargo ships? Yes.



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

FGXW : In a smoke filled alleyway, where will the cleanest air be found, and how should you proceed out?

A : Near to the deck, crawl out keeping your face as near to the deck as possible

FGYO : A Bulk Vessel is to load a cargo of grain; pre loading calculations show that IMO stability criteria cannot be achieved; the vessel should do which of the following?

A : The grain surfaces in some or all of the cargo spaces must be secured

FHBI : Occasionally the tie rods on a large slow speed diesel engine may fail in service. The mode of failure is usually a complete fracture of the tie rod due to excessive fatigue stress. Select, from the options given, the features of the surface of the fracture that would confirm a fatigue failure.

A : Part of the fracture surface would be uneven but smooth (burnished) with the remainder crystalline with part cup and cone shape.

FHGB : A positive temperature coefficient thermistor will typically have

A : Relatively non linear characteristic

FHGM : What is the correct definition of "boat deck"?

A : The deck for the lifeboats.

FHGM : What is the correct definition of: -boat deck?

A : The deck for the lifeboats.

FHHH : On a Container vessel, what is important with regard to checking container lashings on deck?

A : The tightness of lashing rods and container locking arrangements

FHHH : What is important with regard to checking container lashings on deck?

A : The tightness of lashing rods and container locking arrangements

FHHJ : What is polymerisation?

A : Polymerisation is when molecules of a particular compound link together into a larger unit containing from two to thousands of molecules.

FHIQ : Are there any special lights to be exhibited by a vessel towing or pushing another vessel?

A : Lights as per rules regulated by the shape and total length of the towing

FHJO : The fuel injection timing of a diesel engine is delayed causing high cylinder exhaust gas temperatures. What is the likely effect of this condition on turbocharger operation?

A : Increased turbocharger revolutions



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

FHKJ : If extensive repair to the superstructure has been carried out, it will affect the:

A : Load line certificate

FHLB : In case each hydrant is not fitted with hose and nozzles, what is the requirement ?

A : There must be a complete interchangeability of hose couplings and nozzles

FHMQ : Is smoking permitted in the galley? (Select the most correct answer)

A : No.

FHUH : What is recommended for general rough cleaning?

A : Alkaline detergent (strong).

FHVL : Apart from red, what other colour is frequently used for a CO₂ extinguisher?

A : Black

FIAI : The OOW is expected to double- check the whole voyage plan?

A : Yes

FIAI : The OOW is expected to double- check the whole voyage plan?

A : - All of this suggested answers.

FIAI : The OOW is expected to double-check the whole voyage plan?

A : Yes

FIAI : The OOW is expected to double-check the whole voyage plan?

A : - All of this suggested answers.

FIBF : You are going to overhaul a centrifugal pump in accordance with the PMS. The pump is running under optimal conditions and normally operated. Which of the following parts are expected to deteriorate during normal operation and thereby be due for renewal?

A : Ball bearings on the shaft and the wear rings for the pump housing or impeller.

FIBF : You are going to overhaul a centrifugal pump in accordance with the PMS. The pump is running under optimal conditions and normally operated. Which of the following parts are expected to deteriorate during normal operation and thereby be due for renewal?

A : Ball bearings on the pump shaft, and wear rings on pump housing or impeller.



FIJ : Indicate the correct name for the part marked on the sketch:

A : Turbocharger

FIIP : For cargo calculations there are two corrections to be made. Two tables are used for this purpose.

A : List and trim correction tables.

FIJH : Why does the Master sign on the exempted section of the crew agreement?

A : He has a special a special role as company agent

FIJO : What is a "trailer horse" used for?

A : To secure and tow loose trailers

FIKI : Where is the masters responsibility for observing the provisions related to supervision of maritime service stated?

A : In the Act relating to the enrolment of employees onboard ships.

FILE : Which of the following items must be included in each fire drill?

A : All the items mentioned

FILN : Normally ventilation fans in enclosed ro-ro spaces must be run continuously whenever vehicles are on board, why?

A : An increased number of air changes may be required when vehicles are being loaded or unloaded, or where flammable gases or liquids are stowed in closed ro-ro spaces

FIPC : Give the meaning of this symbol:

A : lifebuoy with light and smoke

FIQW : How should wooden chopping boards be arranged after washing?

A : They should be placed vertically in a drying rack, in such a way that air circulates over all surfaces during drying.

FIRA : Which one of the listed requirements regarding lifeboat propulsion do not correspond to present regulations?

A : The engine shall be provided with an electric power starting system with rechargeable energy batteries

FIUS : How do You test the probes for the 15 PPM monitor ?

A : By immersing them in buckets with oil and water.



FIUL : Static electricity may be built up by the :

A : All of the above

FJAH : What is the normal maximum oil content permitted for machinery space bilge overboard discharge via OWS equipment?

A : 15 PPM

FJBB : Where is the normal position of the "Pivot Point" of a vessel when going astern?

A : - Between 1/4 of the ship's length from the stern and the rudder post

FJGX : In order for fuel oil to burn properly it must

A : All alternatives

FJHK : On a Container vessel, when will a hatch pontoons quick-acting cleat need replacement?

A : When the rubber washer is compressed and hardened

FJHV : Which provisions concerning holidays must the master ensure that is carried onboard?

A : The Act relating to holydays and Regulations relating to holydays for employees on ships.

FJKE : MARPOL Annex VI and IMO MSC Circ 585 "Standards for Vapour Emission Control Systems" require that P/V valves in such a system on an oil tanker should relieve the pressure or vacuum once they reach specified levels in a cargo tank. The design is approved by the administration, but what are the usual pressure and vacuum levels required to activate the P/V valves?

A : Pressure: 1 psi (0.069 bar) Vacuum: 0.5 psi (0.034 bar)

FJMV : What are the ideal conditions required to satisfactorily conduct an Inclining Experiment?

A : All of the suggested answers

FJOK : Personnel on board passenger vessels must undergo training courses before they can be part of the safe manning and assigned to emergency duties on board. What is minimum training requirement for all personnel?

A : Basic Safety Training Course and Crowd & Crisis Management Training Course

FJPB : A death of one of the ship's crew occurs on board whilst the vessel is at sea, what actions must you legally take?

A : First aspect confirm death. Notify company, and make arrangements for notification of next-of-kin. Arrange to have body moved to freezer area. Notify local agents and British Consul when abroad. Complete Births and Deaths section of Official Log book. Ma

FJPC : If a crew member joins and his certificate had expired 2 days previously, would you sign him on the Crew Agreement?

A : No - his certificate is not valid



FJTD : In oil cargo calculations, what is the relationship between absolute and gauge pressure?

A : Absolute pressure = gauge pressure + barometric pressure.

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A : Absolute pressure = gauge pressure + barometric pressure.

FKAB : The International Organisation which has developed GMDSS is :

A : IMO

FKBR : What would you do before giving a boiler a "bottom blow"

A : Raise the water level a couple of inches above normal

FKCQ : The word RADIO is spelled conform the international phonetic alphabet:

A : Romeo, Alpha, Delta, India, Oscar

FKDL : The centrifugal pump is not delivering water, what is the problem

A : Air leaks on suction side

FKJO : A heavy piece of machinery is loaded on deck of a container vessel, stowed across several flatrack containers. Select the most appropriate lashing method.

A : All lashings to be taken to the flatrack lashing points.

FKPY : When the fire alarm signal is sounded every member of the ships crew shall immediately proceed to their assigned fire station. Which one of the following signals is used as fire alarm signal on board cargo ships?

A : Intermittent signals by the ship's alarm bells.

FKQQ : Before each cargo tank is crude oil washed (COW) the oxygen content must be determined at?

A : A point 1 metre below the deck and at the middle level of the ullage space.

FKQQ : What is the Oil Transfer Procedure NOT required to contain?

A : The name of the person in charge of the transfer operation

FKRO : How many bolts do you have to have in the blinds on the bunker lines when not in use?

A : One bolt in every hole



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

FKRP : The inductance which will induce an EMF of 1 Volt in a conductor when the current is changing at a rate of 1 Amp per second, is defined as

A : Henry

FKSJ : Check-synchroniser equipment is often installed to:

A : Prevent manual synchronising outside permitted limits

FKUA : How many rocket parachute flares are carried in each liferaft with SOLAS A pack?

A : 4

FKVV : Your vessel has gone aground on a rising tide on a shallow patch charted as a sand bank. The sea is calm with minimum swell and there is little wind. What immediate actions should be taken?

A : Display the Aground signal and sound round all tanks and bottom compartments to determine if there are any damaged compartments or ingress of water.

FLBS : Too high exhaust temperature in one cylinder becomes because of:

A : Poor cylinder condition - blow by -including leaking exhaust valves.

FLCN : Are there any restrictions about how much sludge we can pump overboard on the sea voyage?

A : Maximum is 30 litre pr nautical mile and total is 1/30000 part of full cargo on the ballast voyage.

FLDH : Is there any requirements regarding crew's language skills?

A : Yes, all crew must be able to communicate on the language spoken by the majority of the passengers, or demands set by the company.

FLMJ : If circumstances permit, how should low expansion foam be applied to oil burning in the bulkhead of the engine room?

A : The foam should be aimed at the bulkhead behind the fire and allowed to spread out slowly over the fire.

FLMJ : If circumstances permit, how should low expansion foam be applied to oil burning near a bulkhead of the engine room?

A : The foam should be aimed at the bulkhead behind the fire and allowed to spread out slowly over the fire.

FLPT : The Master is responsible that all crew participate in monthly emergency drills. If 25% of the crew - or more - has not participated in such drill during the last month, what is the time limit to conduct such a drill after the vessel has left a port?

A : Within 24 hrs

FLPV : Why is it important to sort out linen before washing?

A : To avoid damage and miscolouring of different types of fabric when washing.



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

FMAT : Inhibitors are often added to liquefied gas cargoes prior to loading to prevent or slow down polymerisation. An inhibitor information form or certificate must be provided by the cargo shipper to the vessel. What sort of information must this certificate contain about the inhibitor in addition to the technical name and quantity added?

A : Inhibitor name, concentration of inhibitor, duration of effectiveness of inhibitor, expected duration of sea voyage, temperature limitation qualifying the lifetime of the inhibitor and number of cargo tanks inhibited

FMDT : What is the purpose of the special two-way valves mounted on towers at a given height above the cargo deck of a chemical tanker?

A : When appropriately set, they automatically prevent excessive pressure in a cargo tank (carrying harmful vapours away at a safe height) and relieve excessive vacuum.

FMIM : Your vessel is a tanker in ballast and the two vessels are interlocked after collision. You have already made clear that all people are well taken care of and you will try to separate the two vessels. What should be your greatest concern?

A : That the separation may cause sparks that can possibly ignite the oil or any other flammable substances.

FMKS : Cargo holds on a bulk carrier are washed after discharge, but cargo residues are often found on the tank top when hatches are opened at the load port. What could be the likely cause?

A : Because of cargo residues falling down due to ships vibrations during the ballast passage

FMKT : What type of nozzles for fire hoses can be provided aboard ships?

A : Dual purpose (jet/spray) type incorporating a shutoff

FMOV : The names and addresses of accounting authorities can be found in :

A : The ITU List of Ship Stations

FNAR : Chemicals and harmful substances are safely stored in a designated locker on board, why?

A : For safety reasons. Many substances found onboard are capable of damaging the health and safety of those exposed to them. Before any chemical or harmful substance is delivered to a crewmember,

FNBO : On some large slow speed engines the crosshead guides are adjustable to allow the clearance between the crosshead shoes and the guides to be set equally. The normal arrangement is to have bolted on guide bars with shims fitted behind them. Which of the methods given in the options is the one normally used to ensure this is done correctly?

A : Turn the engine so that the piston skirt is at the bottom of the liner. Use wedges to

FNCM : What is the correct definition of: -boat drill?

A : Training in lifeboat handling.

FNDY : What general background colour is used on warning signs which require a specific "mandatory" action, such as one which might require the wearing of a safety harness during a particular work task?

A : Blue.

FNDY : What general background colour is used on warning signs which require a specific "mandatory" action, such as one which might require the wearing of goggles during a particular work task?

A : Blue.



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

FNEV : The thermo-expansion-valve is a part of the refrigeration system. What is the thermoexpansion valve doing?

A : Regulating freon liquid flow to the evaporator.

FNHK : A record is to be made of the functions of an operational refrigerated container. Select, from the options given, the most likely method that would be used to make such a record.

A : The record would be made on an electronic data logger.

FNIF : How many digits are there on a MMSI number?

A : 9

FNIY : A vessel is equipped for all sea areas. In the middle of the Indian Ocean the EGC-receiver appears out of order. Is it still possible to receive MSI-messages?

A : yes, with the MF/HF-radio telex

FNMI : How is the Maritime Employer/Employee Register kept up to date?

A : By reports prepared by the master/employer.

FNPN : To obtain "time and duration" after a telephone call with number 010-1234567 in the Netherlands, via an Inmarsat-terminal, one should enter after receiving the second dialling tone:

A : 3731101234567#

FNYB : You are duty officer on "A" and are observing "B" on your starboard side. "A" is a heavy loaded tanker, while the other vessel "B" is in ballast. You like to increase the CPA, and reduce the speed and then stop your vessel. You are going into the chart room to check the position. The other vessel has engine failure and stops the engine. Suddenly the two vessels is colliding, how can it happen?

A : It is possible since the ballasted vessel stops faster than the loaded vessel

FNYB : You are duty officer on "A" and you are observing "B" on your starboard side. "A" is a heavy loaded tanker, while the other vessel "B" is in ballast. You would like to increase the CPA and reduce the speed to stop your vessel. You are going into the chart room to check the position. The other vessel has engine failure and stops the engine. Suddenly the two vessels are colliding, how can this happen?

A : It is possible since the ballasted vessel stops faster than the loaded vessel

FOBJ : During standstill liquid may condense in the crankcase or oil separator. Why is it important to heat up the oil before start?

A : To avoid the compressor-oil to disappear from the crankcase during starting.

FOEV : When would you expect potatoes bought in Northern European ports to have poor storage quality?

A : May

FOGO : What is the function of a Ship's Register?

A : Proves the name of the owners of shares in the ship and nationality



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

FOJV : All closing arrangements, stowing of cargo etc. are subject to regulations by the Norwegian Maritime Directorate (NMD). Which of the following requirements regarding hatches, hatch covers etc. corresponds to present regulations? (NSCL 4/9.3).

A : Ports in exposed position shall be closed and properly battened before the ship leaves the quay or berth.

FOJW : What is the book named: "Excerpts from the Norwegian Maritime Code of 24 June, 1994, No. 39"?

A : An unofficial translation of "Den norske skipskontrolls regeler" leaving out some provisions, such as speed limits, relating to local Norwegian waters. (The authorised Norwegian original applies in cases of discrepancies etc.)

FOJW : What is the book named: "Excerpts from the Norwegian Passenger and Cargo Ship Legislation, etc"?

A : An unofficial translation of "Den norske skipskontrolls regeler" leaving out some provisions, such as speed limits, relating to local Norwegian waters. (The authorised Norwegian original applies in cases of discrepancies etc.)

FOJW : What is the book named: "Excerpts from the Norwegian Ship Control Legislation"?

A : An unofficial translation of "Den norske skipskontrolls regeler" leaving out some provisions, such as speed limits, relating to local Norwegian waters. (The authorised Norwegian original applies in cases of discrepancies etc.)

FOKQ : On a Container vessel, who is responsible for the safe lashing and securing of containers?

A : The master

FOKQ : Who is responsible for the safe lashing and securing of containers?

A : The master

FOMM : An airway should be used when

A : The patient is breathing on his own but is doing so with great difficulty

FOPP : The discharge arrangements for halogenated hydrocarbon total flooding systems shall be so designed that the minimum quantity of medium can be discharged in (based on the discharge of the liquid phase):

A : 20 seconds or less

FOUN : A person slowly feel more sleepy and thirsty. The skin and slimhinner become very dry and there is a sweet taste of the breath. The glukose reaction shows positive. What kind of medicine will the person need as soon as possible?

A : Insuline.

FOVI : What does this crane signal indicate?

A : Lower the load

FOXW : What is the meaning of this symbol ?

A : Start engine



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

FOYQ : Approximately how many days will fresh cucumbers usually last in cold storage?

A : Approx. 18 Days

FPAL : Why should passenger ships be subdivided into main vertical zones?

A : To comply with specific provisions for fire integrity defined in SOLAS and to ensure safety of passengers and crew in case of a fire

FPHT : Which of these is an acceptable method of ascertaining the watertight integrity of hatch covers?

A : Hose test

FPHT : Which of these is not considered a method of ascertaining the watertight integrity of hatch covers?

A : Visual inspection

FPIR : Normally ventilation fans in enclosed ro-ro spaces must be run continuously whenever vehicles are on board, why?

A : An increased number of air changes may be required when vehicles are being loaded or unloaded, or where flammable gases or liquids are stowed in closed ro-ro spaces

FPJV : Which one of the listed fire-extinguishing medium is most effective against an open oil fire?

A : Foam.

FPKJ : What is important to wear for all officers and crew when working on the ro-ro deck during loading and discharging?

A : In case of an emergency situation it can be difficult for passengers to escape. Vehicles, lorries, trailers and other cargo are maybe lashed and it is a substantial chance for passengers to ge

FPLA : On a Container vessel, what is the latest amendment to the IMDG Code?

A : 34-08 (36-12 IMDG 2012 Edition comes??? into force on 1 January 2014 for two years)

FPLA : What is the latest amendment to the IMDG Code?

A : 34-08 (36-12 IMDG 2012 Edition comes??? into force on 1 January 2014 for two years)

FPLA : Which of these is addressed in the latest amendment (34-08) of the IMDG Code?

A : All

FPPJ : What is the full name of the International Convention dealing with stability of passenger ships?

A : The International Convention for the Safety of Life at Sea



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

FPRB : What is the meaning of this flag in the International code of signals?

A : You are running into danger

FPRD : What is recognized as the main hazard when entering a void space?

A : Lack of oxygen?

FPSU : Having collected evidence into a maritime incident, can the MAIB prosecute any person who may have caused the incident?

A : No - their role is purely investigatory to establish the facts -not to apportion blame

FPUN : The main task of the HP valve in the HP fuel oil pump is:

A : to stop fuel oil from getting back from the HP fuelpipes between the pump strokes.

FPUO : Sea area A3 is in maritime radio traffic a sea area:

A : with the exception of the areas A1 and A2 within the range of a geostationary satellite of Inmarsat in which an uninterrupted alerting is possible

FPVH : What type of fire-extinguishing medium release is allowed for fixed gas fire-extinguishing installations? (SOLAS II-2/5.1.8)

A : Manual operated release system only

FPWB : Identify this symbol:

A : Emergency fire pump?

FPYN : Define the class of emission F3E :

A : Radiotelephony - Frequency modulation

FQDR : Some 4-stroke engines are fitted with a rotorcap on the cylinder head valves. For what reason?

A : Improve the sealing surface function, increase the service time of the exhaust valve in the engine.

FQEL : What will happen with the oil water interface in the bowl if the throughput rate is too great?

A : The interface will move outwards allowing oil to discharge from the water outlet.

FQEL : What will happen with the oil water interface in the bowl if the throughput rate is too great?

A : Broken water seal.



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

FQEL : What will happen with the oil water interface in the purifier bowl if the dirty oil throughput rate is too great?

A : The interface will move outwards allowing oil to discharge from the water outlet.

FQEL : What will happen with the oil water interface in the purifier bowl if the dirty oil throughput rate is too great?

A : Broken water seal.

FQJO : What is an effective means of measuring total dissolved solids in boiler water?

A : Conductivity test.

FQLG : Which of the following Meridian figures is correct? Approx. Pos: N30°00 W15°00. Declination: 15°00S.

A : Figure 4 is correct.

FQMB : What do you understand by the term Luffing?

A : Making the crane jib move up and down.

FQXX : Which one of the listed requirements regarding radiotelegraph stations do not correspond to present regulations? A radiotelegraph station shall be provided with:

A : direct access to the navigating bridge

FQUL : Give the meaning of the following symbol:

A : lifeboat

FQVB : By the term "Stand by" the operator of a coast-station means that one should:

A : Wait until the coast-station calls again

FQVC : In the traffic list a coast-station indicates that there is a radio telex-message for a vessel. To call for the message one should put in:

A : after ga+ the radio telex-command msg+?

FQWV : Define the class of emission J3E :

A : Radiotelephony - Single sideband suppressed carrier

FQYJ : There are 3 lifeboats on each side of a passenger liner engaged on international voyage. All these lifeboats are identical. What should be the total number of persons that can be accommodated in the 3 lifeboats on the starboard side altogether ?

A : at least 50 % of N (*)



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

FRFG : With an
E P I R B :

A : you must check the date that the battery must be replaced

FRFS : When should bagged fishmeal not be rejected for loading?

A : When temperatures of the bags are around 25 degrees centigrade

FRGX : Which one of the listed requirements regarding liferaft equipment do not correspond to present regulations? The normal equipment of every liferaft shall consist of:

A : thermal protective aids for the number of persons the liferaft is permitted to accommodate

FRGY : Indicate three important target data which can be received from radar tracking of other ships?

A : Course, speed and risk of collision.

FRKB : Which of the following ear protection devices is most effective?

A : Ear muffs

FRKD : The turbocharger (constant pressure) is making "whoofing" noises. What might be the cause?

A : Heavy seas from behind.

FRKL : What would be the most likely cause of a smell of "rotten eggs" in the upper casing of the engine room?

A : A leak of exhaust gases from boiler or diesel engines.

FRKL : What would be the most likely cause of a smell of "rotten eggs" in the upper casing of the engine room?

A : A leak of exhaust gas from a boiler or diesel engine exhaust.

FRLB : According to most industry standards, what percentage of oxygen by volume is required for entry into an enclosed space without a breathing apparatus?

A : 21%

FRLC : When a fire breaks out in the accommodation, cargo holds or on deck, who is in charge of the fire fighting operations?

A : The Chief Officer

FROO : What is the minimum number of lifebuoys carried by a cargo vessel of more than 200 metres in length ?

A : 14



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

FRQV : The Training Manual shall contain instructions and information on the life-saving appliances and the best method of survival. The training manual shall contain detailed explanations of crew duties in relation to emergency situations. Which of the following tasks or duties shall be included in the manual according to present regulations?

A : Best use of the survival craft facilities in order to survive.

FRTI : The person in charge of a lifeboat :

A : all of the above

FRTI : The person in charge of a lifeboat :

A : All of the below mentioned

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A : All of the below mentioned

FRTI : The person in charge of a lifeboat:

A : all of the above

FRUB : Information about your ship's security arrangements and procedures is stored electronically. Which of these measures will help safeguard it from potential threats?

A : Passwords

FRYG : As an bridge officer. What would the best thing be to do, if the Master does not or cannot take the leadership

A : Take action to start the process to solve the situation, but do it diplomatically.

FSBA : Why are duplex filters usually employed in the lubricating oil system of an auxiliary diesel engine?

A : Changing of filter element would not interrupt the engine operation.

FSFA : The relay of a distress-call by an RCC for coast-station begins with:

A : MAYDAY RELAY (3x)

FSGQ : Which means of communication is used by the NAVTEX system ?

A : MF

FSIL : Prior to commence loading, in what way would you best ensure a smooth technical operation?

A : All the mentioned alternatives?



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

F5NK : On a Container vessel, what facilitates the lashing of containers in the fourth and fifth tiers?

A : The lashing bridge

F5NK : What facilitates the lashing of containers in the fourth and fifth tiers?

A : The lashing bridge

F5OS : What immediate actions should the Officer of the Watch take when the ship goes aground on an uncharted shoal in the middle of the ocean?

A : Stop engines and call the Master

F5PX : What determines the condensation pressure in a direct cargo cooling plant?

A : It is the seawater temperature and the purity of the vapour that gives the condensation pressure

F5SH : How many separate means of escape from passengers and crew spaces should it be in each zone?

A : Two

F5YD : Why are hypochlorite based treatments used on some sea water cooling systems?

A : Prevent biological growth

F5YD : Why are hypochlorite based treatments used on some sea water cooling systems?

A : To prevent biological grown in the system

F5AV : A combined vessel (wet/dry) is equipped with 2 Gantry Cranes and certified to carry HC petroleum products. Crane No.1 is dedicated for hose handling and crane No. 2 has all functions interlocked when in "Wet cargo Mode". The vessel is at anchor having a cargo of naphtha onboard, Chief Eng. is requesting to have one of the cranes prepared in order to take onboard spares. What will be the best crane to use?

A : Crane No.1

F5AX : The figure shows a silicon controlled rectifier with a RC circuit connected in parallel. RC circuit is often used in such connection. For which purpose?

A : Protect the SCR against damage caused by high voltage spikes

F5AX : The figure shows a silicon controlled rectifier with a RC circuit connected in parallel. What is the purpose of the RC circuit ?

A : Protect the SCR against damage caused by high voltage spikes

F5EC : Identify this symbol:

A : Emergency generator?



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

FTFD : Vessels communicating directly with each other by mariphone, work:

A : always simplex

FTGS : Which one of the following requirements regarding lifebuoys corresponds to present SOLAS regulations?

A : Not less than half the total number of lifebuoys shall be provided with self-ignition lights.

FTJL : You are alongside, loading several grades of chemicals, some with an explosion and flammability hazard. It is late evening. Whilst moving some equipment with the manifold crane, you accidentally hit one of the deck flood-lights, smashing the glass cover and the light bulb inside. What will you do?

A : Report the accident to the Duty Officer immediately. Switch off the power to the light concerned. Place an isolation notice over the switch to prevent anyone else operating the switch. Advise

FTJL : You are alongside, loading several grades of chemicals, some with an explosion and imflammability hazard. It is late evening. Whilst moving some equipment with the manifold crane, you accidentally hit one of the deck flood-lights, smashing the glass cover and the light bulb inside. What will you do?

A : Report the accident to the Duty Officer immediately. Switch off the power to the light concerned. Place an isolation notice over the switch to prevent anyone else operating the switch. Advise

FTLQ : A DSC distress alert single frequency call attempt is awaiting acknowledgement:

A : automatically repeated after 3 and a half to 4 and a half minutes

FTWQ : What is the traditional seamans saying that suggests the procedure to follow when carrying provisions around the galley and storerooms and up and down stairways?

A : One hand for the ship and one for yourself.

FTYA : When reasonable and practicable, how often shall rescue boats be launched with their assigned crew aboard and manoeuvred in the water?

A : Every month

FUBR : The sensitivity of a communication receiver can be adjusted with:

A : RF-Gain

FUBY : Cargo residues of certain chemical substances are permitted to be removed by ventilation. What criteria is applied in determining if a cargo can be cleaned in this way? (Always accepting that local port authorities may have over-riding regulations on ventilation).

A : That the cargo discharged has a vapour pressure greater than 5 KPa at 20 degrees Celsius.

FUBY : Cargo residues of certain substances are permitted to be removed by ventilation. What criteria is applied in determining if a cargo can be cleaned in this way? (Always accepting that local port authorities may have over-riding regulations on ventilation).

A : That the cargo discharged has a vapour pressure greater than 5 KPa at 20 degrees Celsius.

FUFG : What is the minimum furnace temperature that must be reached during start up before waste material can be introduced into an incinerator?

A : 850 C



FUKP : How much food per person is supplied in a lifeboat?

A : Not less than 10000 kJ

FUKQ : Which of the following certificates would always be required on a general cargo ship?

A : Safety Equipment Certificate

FULL : Cargo compressors are often used to handle cargo vapour on LPG carriers. How is liquid cargo prevented from entering the suction side of the cargo compressor?

A : By using a liquid receiver on the vapour line between the cargo tank and the compressor

FULO : What is the principal shipping regulations governing Health & Safety

A : The Health & Safety at Work Regulations (1997)

FUOG : Whilst underway, during the approach and in the process of double banking, or whilst transferring cargo whilst underway, the following signals from the IMO's Collision Regulations shall be displayed (unless local regulations differ) by both ships:

A : Signals for vessels restricted in their ability to manoeuvre

FUOG : Whilst underway, during the approach and in the process of double banking, or whilst transferring cargo whilst underway, the following signals from the IMO's Collision Regulations should be displayed (unless local regulations differ) by both ships:

A : Signals for vessels restricted in their ability to manoeuvre

FUPY : What do you understand by the term, "Let Go"?

A : Cast off the rope.

FUPY : What do you understand by the term "Let Go" when applied to mooring and unmooring?

A : Cast off the rope.

FUSE : You are leading a team fighting an interior fire. If you see the colour of the smoke changing from dark black to grey, what is the most probable reason for that change?

A : The team is applying water and the temperature is decreasing

FUVP : What is the most important task after carrying out any major overhaul on a diesel engine?

A : A search inside the crankcase for tools and rags.

FUVP : What is the most important task after carrying out any major overhaul on a diesel engine?

A : A thorough check inside the engine to make sure all tools and cleaning rags have been



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

FUWK : Who shall check the ships medical supplies if the ship is in a foreign port, for example outside Europe?

A : A pharmacy authorised to do so or if no such pharmacy is available, the master and an approved seamen's doctor

FUYY : The Safety Management Manual contains checklists that are:

A : clear, concise summaries of critical action items in the emergency plan

FVCM : The Inert Gas Plant shall be capable of delivering inert gas with an oxygen content of not more than?

A : Max. 5% oxygen

FVJY : A consequence of operating a centrifugal pump with the discharge valve closed would be:

A : Pump will overheat

FVMX : It is important to know about alternative escape routes because?

A : Normal escape routes may be unavailable.

FVOQ : Which item among those below is included in the normal equipment of every lifeboat ?

A : a manual pump for effective bailing

FVYA : On what kind of document shall working hours on board ships be kept?

A : On a time sheet arranged by the Norwegian Maritime Directorate

FWAN : You can reduce the need for security guards in certain areas by installing:

A : Anti-intruder devices

FWBV : A routine inspection of a hold space on a liquefied gas carrier is necessary. Checks of the atmosphere indicate that there is only 19.5% oxygen content. Which of the following actions is recommended?

A : Postpone the inspection and continue ventilating until an oxygen reading of 21% is achieved.

FWBY : What do you understand by the initials: EPIRB?

A : This means: Emergency Position Indicating Radio Beacon

FWDM : How is the size of a reefer vessel normally referenced?

A : By the cubic foot capacity.



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

FWEU : What is the purpose of the cylinder head safety valve?

A : To relieve excessive high pressure in the cylinder to protect the engine from being damaged

FWFP : Which of the following should NOT be used on an electrical fire?

A : Water extinguisher.

FWHC : During synchronising, the incoming generator should be running slightly "fast" compared to the busbar frequency. This is to ensure that the:

A : Incomer picks up as a generator

FWKP : The Training Manual shall contain instructions and information on the life-saving appliances and the best method of survival. The training manual shall contain detailed explanations of crew duties in relation to emergency situations. Which of the following tasks or duties shall be included in the manual according to present regulations?

A : Boarding, launching and clearing of survival crafts (lifeboat/liferafts) and rescue crafts (MOB-boats).

FWKR : On a General Cargo Vessel, which of the following statements are correct?

A : Under the Hague and Hague-Visby rules a shipowner must exercise due diligence to make a vessel seaworthy

FWKR : Which of these statements is correct?

A : Under the Hague and Hague-Visby rules a shipowner must exercise due diligence to make a vessel seaworthy

FWKS : All waste receptacles shall be of non-combustible materials, built and equipped with: (SOLAS II-2/18.5)

A : No openings in sides and bottom

FWMG : On the figure 4 possible definitions of the term "BUOY LINE" are given. Which one is the correct one?

A : Buoy line is given by A on the figure

FWTB : On a RoRo vessel, with regard to the characteristics of a mafi trailer, what must be ensured prior to disconnecting from the tug on board?

A : That after unfastening it will not move

FWTB : With regard to the characteristics of a mafi trailer what must be ensured prior to unfastening this unit on board?

A : That after unfastening it will not move

FWTR : Describe the documental process of engaging a new crewmember

A : The master checks all the relevant documentation is valid and in date. He completes the seaman's details in section ALC 1a, ALC 1b or ALC 1c as appropriate. The seaman signs in section a) of the signature of seaman section of the appropriate ALC form.



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

FWVK : How many thermal protective aids are required to be carried on vessels with open lifeboats?

A : One for each person on board who is not provided with an immersion suit

FWVL : How is the painter released from the lifeboat, once the boat is waterborne and ready to leave?

A : Remove the toggle which will release the painter

FWXQ : As well as hazards due to flammability, toxicity and frostbite some liquefied gas cargoes may cause chemical burns in the event of skin contact? Which of the commonly carried cargoes given in the options is most likely to result in chemical burns due to skin contact?

A : Ammonia.

FXAI : Which of the following detectors is preferred for detecting smoke from fire?

A : Ionization type

FXAI : Which of the following detectors will you choose for detecting smoke from fire?

A : Ionization type

FXAK : A self contained Breathing Apparatus should contain at least 1200 litres of air. How long should this last a normal person who is not carrying out hard work?

A : 30 minutes

FXAK : A self contained Breathing Apparatus should contain at least 1200 liters of air. How long should this last a normal person who is not carrying out hard work?

A : 30 minutes

FXCG : An optic detector is activated by:

A : The visible smoke that is a result of combustion

FXDX : What would you say about a ship which is course unstable?

A : When you apply the rudder, she will continue to turn when the rudder is put amidship, and may even increase the rate of turn

FXEL : Which one of the listed requirements regarding abandon ship and fire drills do not correspond to present regulations?

A : On all short international voyages, muster of passengers shall take place as soon as possible after departure

FXGK : "RECEIVED MAYDAY" is used in a:

A : receipt of a distress alert



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

FXHG : What is the minimum number of relief valves to be fitted to any cargo tank of greater than 20 cubic metres capacity?

A : At least two pressure relief valves.

FXIA : What differential pressure would be acceptable as a normal value across a lubricating oil filter for a diesel engine?

A : 0.2 Bar

FXIA : What differential pressure would you expect to find across an engine lub.oil filter?

A : 0.2 Bar

FXIY : A « MRCC » is
:

A : A SAR coordinating centre

FXMS : For what are bridge indicators required on board a ro-ro vessel?

A : All

FXMS : On a RoRo vessel, which of the following can cause an unplanned list at sea?

A : All of the following answers

FXMS : Which of the following can cause an unprecedented list at sea?

A : Water entering a vehicle deck

FXNN : During maintenance of a pneumatically operated, diaphragm actuated control valve the diaphragm is found to be split. Select, from the options given, a suitable material to use to make a temporary replacement if there is no spare diaphragm available.

A : Natural rubber sheet of approximately the same thickness and elasticity as the original

FXRR : All liquefied gas carriers, including LNG carriers, must follow the requirements of the IMO IGC code. What are the main areas covered by the IGC code for gas carriers?

A : Gas carrier design and equipment.

FXRR : What does the IGC code primary deals with?

A : The IGC code primary deals with gas carrier design and equipment.

FXTT : How often should an inflatable liferaft be serviced at an approved service station?

A : Every 12 months



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

FXUB : According to ISGOTT, flue gas that is produced by the burning of a fuel oil that has a high sulphur content will typically contain which of the following amounts of sulphur dioxide?

A : 2,000 ppm

FXXK : On board a crude oil tanker, where would you look for guidance on the washing system and equipment, together with the applicable operating procedures?

A : The Operating and Equipment (COW) Manual.

FXXK : On board an oil tanker, where would you look for details of the Crude Oil Washing system and equipment, together with the applicable operating procedures?

A : The Operating and Equipment (COW) Manual.

FXYN : Some 4-stroke engines are equipped with cooled fuel valves. Why is it so important to keep the coolants temperature correct?

A : For cooling and to maintain correct viscosity on the fuel when injected

FXYP : What is the name of the reference manual, jointly produced by the International Maritime Organization and the International Civil Aviation Authority, which currently outlines the organization and management of search and rescue activities at sea?

A : A vessel, other than a rescue unit, designated to co-ordinate surface search and rescue operations within a specified area.

FXYP : What is the name of the reference manual, jointly produced by the International Maritime Organization and the International Civil Aviation Authority, which currently outlines the organization and management of search and rescue activities at sea?

A : - The International Aeronautical and Maritime Search and Rescue (IAMSAR) Manual.

FYAL : If a ship requires 2 nautical miles to stop in the water from a "crash stop" when proceeding at full ahead in deep water. What will the stopping distance be in shallow water?

A : Longer

FYBJ : As well as having temperature sensors located in the cargo holds some reefer vessels are also fitted with ethylene sensors. Why is it useful to have information regarding the ethylene content in a reefer vessel cargo hold when carrying fruit cargoes?

A : Some fruit cargoes are sensitive to ethylene and the quality of the cargo can deteriorate as they may over-ripen.

FYCV : What medium is used to calibrate the ODME?

A : Climatic condition check list.

FYHL : Once a hatch is sealed what prevents sparks from entering the hold?

A : The ventilator grill

FYHL : Once a hatch is sealed, what prevents sparks from entering the hold of a Bulk Carrier?

A : The ventilator grill



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

FYKG : Too high exhaust temperature in one cylinder becomes because of:

A : Injection valve opening pressure is too low.

FYNQ : Which of the following actions will most effectively prevent fire in a cabin?

A : Ensuring that all persons avoid smoking in bed.

FYPK : What is the definition of an "independent" cargo tank?

A : One which is not contiguous with, or part of the hull structure.

FYPK : What is the definition of an "independent" cargo tank, as may be found on a chemical tanker, under the IBC Code?

A : One which is not contiguous with, or part of the hull structure.

FYPK : What is the definition of an "independent" cargo tank under the IBC Code?

A : One which is not contiguous with, or part of the hull structure.

FYRU : On what criteria is the Threshold Limit Value (TWA) based?

A : The gas is harmful when the concentration is 5 parts per million or more.

FYSS : What can be the punishment for a shipmaster who refuses to provide any person carried on the ship with anything which he is entitled to receive in such capacity, or who permits such refusal?

A : Shall be liable to fines or imprisonment for a term not exceeding 6 months, but not exceeding 1 year if there are especially aggravating circumstances.

FYXS : The restriction of overtime work is that no person shall be required, under normal circumstances, to work more than:

A : 14 hours a day

FYYN : A maritime inquiry abroad shall be heard by:

A : The Norwegian Consular Court concerned.

FYYS : With full load on the main engine, the turbocharger tachometer reads: Too low RPM. Why?

A : Pick up for tachometer is wrongly adjusted

GAAK : Inmarsat Telex Service code '33' can be used:

A : when technical problems are experienced with the Inmarsat-terminal



GAIF : When is a vessel considered to be unseaworthy?

A : When the vessel is not cargo worthy

GAIF : When is a vessel considered unseaworthy?

A : When it is not cargo worthy

GALT : When ballasting operations are about to start on a bulk carrier, what important checks must be made?

A : That all air pipes are open and that the pipeline and valve system is correctly set up

GAPH : Which types of compressors are used as cargo compressors onboard gas carriers?

A : Piston, screw and centrifugal type compressors.

GAPO : Which of the following statements regarding a centrifugal pump is correct?

A : It is important that the rotation direction is correct to avoid dry running.

GAPO : Which of the following statements regarding a centrifugal pump is correct?

A : It is important that the rotation direction is correct to avoid dry running.

GAPQ : In general, what is the best extinguishing agent to put out a class A fire?

A : Water

GAQH : How often should normal testing of the cooling water be done?

A : Once a week.

GAQJ : What is the meaning of the term "Steady as she goes" when acting as helmsman?

A : Keep steady course.

GATR : Which function is this circuit performing?

A : Differentiating

GATX : Which item among those below is included in the normal equipment of every rescue boat ?

A : a binnacle containing an efficient compass



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

GAUP : Which of the following is a definition of the "Proper Shipping Name", as found in the IMDG Code?

A : The name to be used in any documentation relating to the transportation of the dangerous substance, material or article, such as on forms, labels and placards.

GAVM : Both primary and secondary insulation spaces of each LNG cargo tank are provided with pressure relief valves. What is the normal set point for these valves?

A : 10 mbar.

GAVM : The primary and secondary insulation spaces of each LNG cargo tank are provided with pressure relief valves. What is the normal set point of the relief valves for these spaces?

A : 10 mbar.

GBAE : There are certain cargoes which are extremely sensitive to moisture in the atmosphere. How are they commonly protected when shipped on chemical tankers?

A : By the application of a nitrogen blanket (pad) above the cargo in the tank.

GBCC : Monoammonium phosphate used as a dry powder can be effective on:

A : solid, liquids and gases

GBCC : Monoammonium phosphate used as a dry powder can be effective on what type of fire?

A : solid, liquids and gases

GBCC : Monoammonium phosphate used as a dry powder can be effective on which of the following type of fire?

A : solid, liquids and gases

GBFO : The Captain has complained about the catering department overtime and the amount of food being left over and wasted. The Cook suggests that he cooks a large amount of rice in one go, keeps it warm during service at the evening meal, places any left over in the refrigerator overnight and then re-heats it for the lunch-time meal the next day. Is this acceptable practise? (Select the most correct answer).

A : No, this is extremely dangerous and could lead to food poisoning throughout the whole crew.

GBHB : Give the meaning of the following symbol:

A : muster station

GBHD : Which statement(s) is true of a gasoline spill?

A : It is visible for a shorter time than a fuel oil spill

GBHW : You are to load a cargo of Isocyanate to tank 4 centre port and the cargo hose from shore is to be connected to a flange directly adjacent to the cargo pump, so that the manifold cross-over and deck cargo line are not used. What must you place underneath the connection?

A : A portable drip-tray.



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

GBHW : You are to load a cargo of isocyanate to tank 4 centre port and the cargo hose from shore is to be connected to a flange directly adjacent to the cargo pump, so that the manifold cross-over and deck cargo line are not used. What must you place underneath the connection?

A : A portable drip-tray.

GBHW : You are to load a cargo of isocyanate to tank 4CP and the cargo hose from shore is to be connected to a flange directly adjacent to the cargo pump, so that the manifold cross-over and deck cargo line are not used. What must you place underneath the connection?

A : A portable drip-tray.

GBHW : You are to load a cargo of isocyanate to tank 4CP and the cargo hose is to be connected to a flange directly adjacent to the cargo pump, so that the manifold cross-over and deck cargo line are not used. What must you place underneath the connection?

A : A portable drip-tray.

GBIW : During loading of oil, you notice oil on the water near your vessel. What should you do first?

A : Stop loading

GBNA : On area A4 the function "Transmission and reception of signals for locating" is mainly based on:

A : the use of SART transponders

GBOK : What are the NAVTEX messages categories which cannot be suppressed ?

A : A, B, D

GBPL : What is the correct understanding of the term "bank effect"? If a ship was approaching the bank at an angle, what would be the effect on the ship?

A : The vessel's bow is pushed away from the nearest bank

GBQH : A ship is sold from one British owner to another, would this require the ship to be re-measured?

A : Not re-measured, but re-registered

GBSX : In which of these circumstances can your ship request a DoS?

A : Your ship is conducting activities with a port or ship that is not required to implement an approved security plan.

GCCD : Instructions for "Preparation for welding or hot work in cargo tanks" is laid down by the Norwegian Maritime Directorate. Which of the following requirements regarding welding or hot work corresponds to these instructions?

A : Before hot work or welding in tanks is started, a complete set of duly signed check lists and certificates shall be provided.

GCDs : When documenting Crude Oil Washing operations in the Oil Record Book, which of the following must be included in the sequence of entries?

A : Quantity of ballast discharged from segregated ballast tanks



GCDV : Which of the 4 alternatives shows a NPN biolar transistor?

A : Figure 3.

GCDV : Which of the 4 alternatives shows a NPN bipolar transistor?

A : Figure 3.

GCDV : Which of the 4 alternatives shows a NPN transistor?

A : Figure 3.

GCEQ : For how long time must the printout from the Oil Discharge Monitoring Equipment (ODME) be retained onboard?

A : Three years

GCFJ : Your vessel has been involved in a collision. As master you have to write about the accident in the log-book. In order to only write the facts in the log-book, which of the following procedures do you find most correct?

A : Find out from officers and crew who have been in connection with the collision, what they have seen, so that detailed and complete description of the sequence of events can be entered in the log-book.

G CFL : A ship equipped to sail in sea area A2 has at least:

A : a MF radio telephony installation

GCGE : What types of gases are not allowed as fire-extinguishing medium for fixed gas fire-extinguishing system aboard ships? (SOLAS II-2/5.1.1)

A : Toxic gases

G CIS : You are alongside, preparing to load several grades of chemicals. The duty officer instructs you to accompany a cargo surveyor during pre-load inspection. At the manifold, the blank flanges on the designated load lines have been removed in preparation for connecting hoses but the surveyor asks you to remove blank flanges from some additional lines, so that he can check them for cleanliness. Which of the following will you do?

A : Notify the duty officer of the surveyors request and await further instructions.

GCLI : For how long time should a VHF survival craft transceiver be able to operate on its batteries ?

A : 8 hours

GCOU : In traffic via Inmarsat-A, the telex connection can be disconnected by entering:

A :

GCQL : When refitting the bolts into a flange on a steam line how should the bolts be prepared so that they can be easily removed next time maintenance is required?

A : Coat the threads in graphite based grease.



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

GCRA : Which IMO convention takes care of the human safety at sea ?

A : he SOLAS convention

GCSV : What do we mean with ESD on a gas carrier?

A : ESD is Emergency Shut Down and the release buttons are located different places onboard

GDCT : Read this text and answer the question: To whom should training in personal survival techniques be given?

A : To all seafarers.

GDDY : When measuring level of liquids with a differential pressure meter, the name of the sensing device is:

A : Pressure diaphragm

GDFK : How is the quantity of fuel oil, in HP fuel oil pump adjusted when the engine is running ?

A : Turning the plunger piston according to engine load.

GDHA : Your vessel "A" is bound for the Pilot station. Vessel "B" will be picking up pilot before you. According to your observation you are getting to close to vessel "B" and Pilot boat "C". What will you do to avoid a collision?

A : Full astern and drop the anchor

GDHA : Your vessel "A" is bound for the Pilot station. Vessel "B" will be picking up the pilot before you. According to your observations you are getting too close to vessel "B" and Pilot boat "C". What would you do to avoid a collision?

A : Full astern and drop the anchor

GDHX : What is required to be done with the OLB when the Crew agreement is closed?

A : Sent to RSS within 48 hours of closure

GDJK : Define the class of emission F1B :

A : Radiotelex and DSC - Frequency shift keying of carrier with error correction

GDJR : Prior to arrival at a US port from a foreign port, as per present regulation, the USCG requires:

A : 96 hours notice of arrival

GDJR : Prior to arrival at a US port from a foreign port, the USCG requires:

A : 96 hours notice of arrival



GDNR : When we are taking "ullages", what are we actually doing?

A : Measuring distance from cargo level to ullage point

GDNR : When we are taking "ullages", what are we really doing?

A : Measuring distance from cargo level to ullage point

GDQB : For vessels carrying toxic products, how many sets of complete safety equipment should be on board ?

A : Sufficient, but minimum 3 complete sets.

GDRC : What will apply when loading Carbon Disulphide ?

A : A water pad should be maintained during loading, transit and discharging. In addition a inert gas pad should be maintained during transit.

GDRM : A mixed cargo consisting of cartons of frozen meat and drums of frozen orange juice is being loaded into the same reefer space. From the options given, select the reason that best describes why the drums of orange juice must be handled carefully.

A : There is a risk of spillage from the drums of orange juice which may taint the meat.

GDRY : The fire point is

A : The minimum temperature at which a combustible gives off vapours that may burn in contact with oxygen in air, and at which combustion persists once the source of ignition has been removed

GDWR : Many large, slow speed diesel engines have direct oil cooling of the piston crowns provided. An automatic slow down and alarm are sometimes fitted to protect against failure of this system. Which parameter is usually used to initiate this slow down?

A : Low flow or no flow in the cooling oil return line.

GDYG : Why do we use stabilisers on passenger ships?

A : To decrease the rolling angle of the vessel

GEDQ : How often must the Emergency Steering Gear be tested, and how is this information recorded in the OLB?

A : Every three months. Details of test with signatures of Master and witness

GEEG : Is it required that the PA-system (Public Address) is connected to a back-up power supply?

A : Yes, the public address system shall be connected to the emergency source of power

GEFB : The first time you send a DSC distress alert via the HF-band, you prefer the?

A : 8 MHz band



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

GEGA : On board an accident happened. Urgent radio-medical advice is needed. We choose the category:

A : urgency

GEHU : An engine room rating is assisting in the maintenance of some of the valves on the low pressure steam range. Which packing material, from the options given, would be the best choice for repacking the gland of a low pressure steam valve?

A : Graphite fibre packing.

GELU : You are on a multiple-product chemical tanker and will carry cargoes of butyric acid, propylene oxide, and octyl alcohol. Which statement is true?

A : Propylene oxide may not be stowed in a tank adjacent to butyric acid.

GEPB : 1MHz is equivalent to :

A : 1000 000 Hz

GERG : Which class of emission is used for MF radio telephony transmissions ?

A : J3E

GESH : Who is responsible for keeping the required official publications onboard?

A : The master.

GEUA : Which one of the listed requirements regarding lifeboat equipment do not correspond to present regulations? All lifeboat equipment shall:

A : be made of fire-retardant material

GEYG : When commence discharging from two tanks loaded 99% through same shore line, what should the procedure be ?

A : Start slowly and closely monitor to ensure that discharging is actually taking place in order to avoid overflow. When the level is below 98% the tank overflow alarm must be reset.

GFAW : Conventions, codes etc. are implemented in the provisions in question. Which method of implementation of international codes is indicated by the letter R?

A : Codes, MSC resolutions etc which are implemented in the regulations and which are expressly mentioned.

GFLQ : When stowing cargo samples, they should be kept in a place which, in addition to being cell-divided to prevent bottles from shifting at sea is:

A : Made of material resistant to the different liquids to be stowed and also well ventilated?

GFLW : The output pressure of a diesel engine lubricating oil pump is regulated by:

A : A relief valve.



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

GFPU : Why does the Chief Mate have to reorder the cargo plan?

A : The wheels of hatchcover No. 7 came out off their tracks

GFPV : How should the spare oxygen and acetylene gas welding bottles be stored onboard the ship?

A : In two separate rooms outside the engine room space.

GFPW : A DSC-message of the "safety" category is received by another vessel on 70. Conform to the GMDSS rules, for the continuation of the safety traffic, change to VHF-channel:

A : 16

GFPW : A DSC-message of the "safety" category is received from another vessel on VHF channel 70. Conforming to the GMDSS rules, for the continuation of the safety traffic, you must change to VHF-channel:

A : 16

GFPX : Which one of the listed requirements for passenger ships regarding personal life-saving appliances do not correspond to present regulations?

A : On all international voyages (except on short voyages) all lifejackets shall be fitted with a light and a smoke signal

GFRG : On a container vessel select from the list the direction of wave encounter which is most likely to cause a parametric roll.

A : Head seas

GFRW : What possible reason could there be for the identification mark associated with a Racon not being visible on the radar screen?

A : To receive information about ships in the vicinity.

GFSF : You will be serving fried fish for dinner. Which of the following procedures would you choose?

A : Prepare it immediately before serving.

GFOA : The revolutions on the turbocharger have increased during the night with unmanned engine. Could this be caused by:

A : The current and wind are holding the vessel back.

GGAO : The critical part of any bunkering operation may be considered to be when topping off the tanks at which stage the risk of overflow and spillage of fuel oil is greatest. What is the correct safe procedure to adopt to minimise this risk?

A : Reduce the bunker delivery flow rate and top off the tanks one at a time.

GGGS : A light system powered by battery or fluorescent signs mounted at deck level indicating the way to the nearest exit

A : A light system powered by battery or fluorescent signs mounted at deck level indicating the way to the nearest exit



GGGS : What is a low location lighting system?

A : A light system powered by battery or fluorescent signs mounted at deck level indicating the way to the nearest exit

GGRN : Who is responsible for completing the DoS on behalf of the ship?

A : Ship Security Officer

GGUQ : On board you have to switch from transmitting to receiving and vice versa. The shore station can transmit and receive simultaneously. You are working with two different frequencies. This method is called:

A : semi-duplex

GGXB : Some liquefied gas cargoes have an inhibitor added to them. What is the main reason for adding an inhibitor to the cargo?

A : To prevent or slow down the rate of an unwanted chemical reaction.

GGXB : Why do we use inhibitor in the cargo?

A : Inhibitor is used to prevent polymerisation of the cargo.

GGXM : Which of the following is most likely to influence changes to emergency plans and procedures?

A : The design and layout of the ship

GHAV : What is the correct definition of "boat drill"?

A : Training in lifeboat handling.

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A : Training in lifeboat handling.

GHAX : Under what circumstances would you remove guards and safety devices from machinery?

A : Sometimes it is necessary to facilitate overhauling.

GBHY : Where onboard an LNG carrier is perlite most likely to be found?

A : As part of the insulation of the cargo containment system.

GHFP : If your vessel is inerting during discharging, what is the maximum allowed discharge rate ?

A : 80 % of the Inert gas generator's capacity.



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

GHFX : Which of the following could be the possible cause of too high cargo condenser pressure?

A : Incondensable vapour in the cargo and shortage of refrigeration.

GHGM : Many large 2 stroke marine diesel engines are equipped with an auxiliary scavenge air blower. What is the purpose of this equipment?

A : To provide combustion air at start up, during manoeuvring and low load running when the turbocharger delivery is insufficient.

GHGM : Many large 2 stroke marine diesel engines are equipped with an auxiliary scavenge air blower. What is the purpose of this equipment?

A : during manoeuvre and manoeuvre speed condition (arrival and departure)

GHHH : Where do we have provisions relating to survey and detention of ships in the Seaworthiness Act

A : In chapter IV

GHID : Your vessel is transiting the Panama Canal. Which manning level is applicable?

A : Sufficiently manned in officers and crew to permit safe handling of vessel.

GHIF : What basic information do we get from the pump system curve?

A : We get information about the pumps lifting height and lifting flow.

GHKK : After carrying petcoke why would the discharge of cargo hold washing have to be restricted?

A : Because the cargo hold washing would constitute an Oily Mixture

GHKS : Your ship is equipped with 2 different types of grabs, small and large, with cubic capacities of 5m³ and 10m³ respectively. Maximum crane load for grab service is 16 tons including grab weight. You are going to discharge a dry commodity having a stowage factor of 1,4 T/m³. What will be the suitable grab for this operation?

A : Small.

GHLS : Which of the following is a ship MMSI ?

A : 227530000

GHND : What are the tricing pendants made for ?

A : They automatically prevent any gap between the ship side and the lifeboat at the first stage of its launching

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A : They automatically prevent any gap between the ship side and the lifeboat at the first stage of its launching



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

GHNJ : How many groups is cargo tanks divided into?

A : 4

GHNJ : The IMO gas code identifies the different types of cargo tanks and cargo containment systems for gas carriers. Which of the options given best describes the types of cargo tank usually found on LNG carriers.

A : LNG carriers usually have independent type B or membrane type cargo tanks.

GHOT : The correct working of an SART can be tested by means of:

A : the test function on the SART

GHQV : Who shall notify the cleaning up contractor (OPA-90)

A : Qualified Individual

GHUM : For how long must you save the printouts from the ODME?

A : Yes.

GHYD : Which type of water can be discharged into the sea without using the ODME?

A : Either of the Sen.Off.Deck if he feels the situation is heading out of control due to bad weather, bad manoeuvring, or for any other reason.

GHYX : When should gangway nets be rigged?

A : Whenever the gangway is rigged.

GIDF : Which of the following is true when comparing Plate Type with Shell and Tube Type Heat Exchangers?

A : Physically smaller for the same capacity.

GIGG : What does the abbreviation STCW stand for?

A : The International Convention on Standards of Training, Certification and Watchkeeping of Seafarers

GIGW : What is mean by bulk Grain cargoes have a low angle of repose?

A : Liable to shift

GIMI : Which of the following services is not provided by INMARSAT B:

A : Safetynet



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

GIRD : In addition to cargo and machinery spaces, which other space, if any, has to be fitted with an approved fixed fire-extinguishing system on a cargo ship where method of protection "I C" has been adopted ?

A : No fixed extinguishing systems are generally required for any other spaces protected according to this method

GI TV : What is the main purpose of routine testing of cooling water?

A : To ensure that the correct levels of chemical treatment are maintained at all times

GI TV : What is the main purpose of routine testing of cooling water?

A : To ensure that the proper residuals of treatment chemicals, as specified, are maintained at all times

GIUM : Who is responsible to ensure that all personnel on board are provided with suitable Personal Protective Equipment where it is needed?

A : The Company/ employer

GIYT : What are the characteristics of Seed Cake containing vegetable oil UN 1386 when carried in bulk?

A : May self-heat slowly and if wet ignite spontaneously

GIYT : What are the characteristics of Seed Cake group C cargo?

A : Low fire risk; no particular hazards

GJAP : Emergency instructions in appropriate languages shall be posted in passenger cabins. What information shall as a minimum be included in the emergency instructions?

A : The method of donning life-jackets, escape routes and alarm signals

GJBL : What are the characteristics of Seed Cake group B (IMDG Class 4.2) cargo?

A : May self-heat slowly; may spontaneously ignite; liable to oxidise; may produce carbon dioxide

GJCX : Which of the following frequencies is used by the NAVTEX system ?

A : 518kHz

GJHG : What is the maximum oil content allowed to call it clean water?

A : 15 ppm

GJIT : On a Bulk Carrier, what should be done immediately if during the voyage the temperature of bulk coal exceeds 55°C?

A : Seal the hold completely and monitor the cargo using suitable instruments



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

GJKN : Water is the extinguishing agent which is the most widely employed and its action as an extinguishing agent is due to a combination of the following phenomena:

A : Cooling, smothering and dispersion

GJLE : What special equipment can often provide assistance in locating a man overboard and in the water?

A : A SART

GJLE : What special equipment can often provide assistance in locating a survival craft or man overboard and in the water?

A : A SART

GJNH : After discharging petcoke and washing the cargo holds in the Mediterranean Sea where can a vessel bound for Aden discharge the cargo residue?

A : At a shore facility

GJNS : How many fast rescue boats are required to be carried by a passenger ship of 500 GRT and above?

A : At least one of the rescue boats shall be a fast rescue boat

GJSR : What has the cadet been ordered to do?

A : He is supposed to paint the evaporator and use a brush to apply the paint

GJTQ : For how long and at what speed is a fully loaded lifeboat designed to operate in calm weather?

A : 6 knots for 24 hours

GJUQ : What is the purpose of a draught survey before and after loading on a Bulk Carrier?

A : To ascertain the actual weight of cargo loaded

GJVG : According to ISGOTT, what is non-volatile petroleum?

A : Carbon monoxide, nitrogen dioxide, nitric oxide, sulfur dioxide?

GKDT : Indicate the correct name for the part marked on the sketch:

A : Piston

GKHF : Which certificate is issued to LPG and other liquefied gas carriers in accordance with the IGC code?

A : It is the Certificate of Fitness that is issued in accordance with the IGC code



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

GKLC : Welding and burning are two operations which give the highest risk of a fire on board ship. Which of the following safety precautions may be regarded as the most important in order to minimise this particular risk?

A : The place of welding-work to be cleaned and all unnecessary objects to be removed.

GKOR : When overhauling the cylinder covers on a modern 4-stroke engine, is it important not to interchange inlet and exhaust valves?

A : Important due to different material and working conditions

GKPI : Which of the following items shall be included in each fire drill?

A : Checking the operation of watertight doors, fire doors, fire dampers and relevant communication equipment

GKPK : You are steaming off a coast when they call from the bridge and tell you that the engine has stopped. They need a couple of hours to fix it, what will you do?

A : As soon as possible determine how the ship is drifting to establish if there is any danger

GKPM : On a fire patrol at night you see smoke coming from a closed cabin door. What action should you take first?

A : Activate the nearest fire alarm button and advise bridge of the location of the fire.

GKQH : What does the Captain mean?

A : Set the engine to dead slow ahead, and change the course 10 degrees to port

GKRE : What kind of information can be achieved from a NAVTEX?

A : Navigational warning.

GKVI : On area A4 the function "Transmission and reception of on scene communications" is mainly based on:

A : the use of MF and/or VHF R/T

GKXR : Which of the following fittings shall be provided to all lifeboats:

A : a tiller permanently linked to the rudder or removable if the lifeboat has a remote steering mechanism

GKYL : What is the correct way that the lookout should report the appearance of a light, in clear visibility, on the port side of the ship in a direction half way between right ahead and abeam?

A : Take a visual search of the sea around the ship

GLIP : Rule 12 of the International Collision Regulations prescribes the action to be taken by a sailing vessel when meeting another sailing vessel. This depends on the direction of the wind relative to each vessel. In the situation shown here, which sailing vessel (A or B) must keep out of the way of the other?

A : A keeps out of the way of B



GLJK : What does the abbreviation TLV mean?

A : Threshold Limit Value.

GLJL : What is the normal method for checking if an oil filter is becoming blocked?

A : The pressure drop across the filter.

GLKF : Which of the following detectors will you choose for detecting torque of a steel shaft?

A : Strain gauge

GLKF : Which of the following detectors would you choose for measuring the torque of a steel shaft?

A : Strain gauge

GLKG : In addition to personal equipment a complete set of firemans outfit also comprises a breathing apparatus and a fireproof lifeline. How many complete sets of firemans outfit is to be carried by all ships?

A : Two sets or more depending on the type and the size of the vessel

GLKH : What is the minimum number of firemans outfits that must be provided on a tanker?

A : 4

GLLG : What is the minimum number of portable fire extinguishers that must be provided for the accommodations, service spaces and control stations on ships of 1000 gross tonnage and upwards?

A : 5

GLRY : Which word will precede an urgency message ?

A : PAN PAN

GLWT : How many lifejackets shall it be in a passenger cabin?

A : Same number as beds in the cabin

GLYL : Indicate the correct name for the part marked on the sketch:

A : Crosshead

GMAN : Commonly used on an oil tanker, what does an "Explosimeter" measure?

A : The composition of hydrocarbon gas / air mixtures in a tank atmosphere



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

GMHS : Having a CO2 alarm during normal working hours, what immediate action should be taken?

A : Get out of the engine room as soon as possible.

GMIR : The engine room is equipped with regular fire hoses and nozzles. What is important to observe when using water as an extinguishant in the engine room?

A : All the mentioned alternatives.

GMJM : During an unmanned period on a UMS vessel the "low water level" alarm for the jacket cooling water system expansion tank activates. What action would you take as duty engineer?

A : Correct water level is obtained by refilling the cooling system, and the entire system is checked for leakages

GMJM : During an unmanned period on a UMS vessel the "low water level" alarm for the jacket cooling water system expansion tank activates. What action would you take as duty engineer?

A : Answer the alarm, top up the tank and check the system for leakage before resuming unmanned operation.

GMLA : This graphical symbol is a logic gate. Which gate?

A : AND

GMLA : This graphical symbol is a logic gate. Which type of gate?

A : AND

GMLG : Where should a Ro-Ro unit that requires protection from heat and large temperature variations be stowed?

A : Under-deck away from bulkheads, fuel tanks, heating coils and uninsulated machinery

GMOE : Among the additives used to improve the effectiveness of water in the fight against fire there are the moisturing ones. What is the task they perform?

A : They reduce the surface tension of water

GMOK : You are starting to get low on water in the lifeboat. What should you do?

A : Collect rain water

GMQY : Give the meaning of this symbol:

A : lifebuoy with line

GMUY : Shall any required automatic sprinkler be capable of immediate operation without action by the crew?

A : Yes



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

GMVY : To what pressure will a new length of cargo hose be tested by a manufacturer prior to its supply to a vessel for service onboard?

A : 1.5 times designed working pressure, but not more than two-fifths of its bursting pressure.

GMVY : To what pressure will a new length of cargo hose be tested by a manufacturer prior to its supply to a vessel for service onboard a chemical tanker?

A : 1.5 times designed working pressure, but not more than two-fifths of its bursting pressure.

GNBI : On a RoRo vessel, what is Standardized Cargo?

A : Cargo for which the ship is provided with an approved securing system

GNBI : What is Standardized Cargo?

A : Cargo for which the ship is provided with an approved securing system

GNDL : A vessel where the engine personnel are in charge of all technical installations on board are due for a voyage to a cold climate area. Are any special precautions to be implemented with regard to fireline/pumps and use of same?

A : All the mentioned alternatives.

GNDL : A vessel where the engine personnel are in charge of all technical installations on board is due for a voyage to a cold climate area. Are any special precautions to be implemented with regard to fireline/pumps and use of same?

A : All the mentioned alternatives.

GNEL : On area A1 the function " Reception of shore to ship distress alerts" is mainly based on:

A : the use of VHF DSC

GNGS : What are the permissible loads on tank top and tweendecks?

A : As per Builders' specification?

GNHN : The time indication 121310z means in maritime radio communication:

A : 12th day, 1310 hours UTC

GNIB : A threaded hole is to be formed in a steel plate using a tap and wrench. When drilling the hole which of the options best describes the required drill size?

A : The drill should be a smaller size than the diameter of the tap.

GNJR : One or more pressure/vacuum-breaking devices shall be provided on the vent mains to prevent the cargo tanks from being subject to a positive and negative pressure. What is the normal pre-set point for negative pressure?

A : A negative pressure in excess of 700 mm water gauge.



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

GNMJ : Under international regulations what must be done frequently during a cargo watch?

A : The vessel's draughts must be recorded

GNMJ : Under international regulations what must be frequently done during a cargo watch on a bulk carrier?

A : The vessel's draughts must be recorded

GNWM : If the general alarm is sounding and evacuation of the ship is required. What is the best way to ensure that all passengers are aware of the situation?

A : Inform the passengers through Public Address system. Crew with designated emergency duties should proceed to their cabin section and search all cabins. Guide and evacuate passengers. If the ar

GNXL : Can a ZENER BARRIER be installed in a hazardous area?

A : No, as only the output from the barrier is intrinsically safe this is not allowed.

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A : No, as only the output from the barrier is intrinsically safe this is not allowed.

GOCO : OPA-90 notification requirements.

A : Notify as soon as you have knowledge of any spill, or threat of a spill

GOGQ : On a Container vessel, what is the purpose of a dovetail foundation?

A : A sliding base for twistlocks

GOGQ : What is the purpose of a dovetail foundation?

A : To secure base twistlocks

GONJ : Modern medium speed diesel engines normally have relatively short crankshafts with large diameter pins. How do these design features affect the reliability of crankshaft deflection readings?

A : They increase the risk of inaccurate readings due to the stiff shaft having very small natural sag which may therefore result in floating journals in the static condition.

GOUY : In a distress situation and immediately after the distress signal has been sounded, what is the next action to be taken by the Chief Officer on duty?

A : Use the intercom to inform crew and passengers of the reason for the alarm

GOYB : You are Sen.Off.Deck / Duty officer onboard one of the vessels involved in a collision. How will you act just after the collision?

A : - Make sure your vessel + crew are safe and then offer your assistance to the other vessel



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

GOYB : You are Sen.Off.Deck / Duty officer onboard one of the vessels involved in a collision. How will you act just after the collision?

A : Make sure your vessel + crew are safe and then offer your assistance to the other vessel

GOYB : You are Sen.Off.Deck / Duty officer onboard one of the vessels involved in a collision. What will your actions be following the collision?

A : Make sure your vessel + crew are safe and then offer your assistance to the other vessel

GOYB : You are Sen.Off.Deck / Duty officer onboard one of the vessels involved in a collision. What will your actions be following the collision?

A : - Make sure your vessel + crew are safe and then offer your assistance to the other vessel

GPAT : What type of discharge pumps are normally in use on gas carriers

A : It is centrifugal pumps that is normally used on gas carriers

GPAU : Why is it important to have good relationship on-board a vessel?

A : It leads to better work performance and positive atmosphere among the crew

GPQG : What routine inspections must the master carry out

A : Crew accommodation and provisions and water must be inspected on a weekly basis

GPLP : Welding and use of open flames on board tankers in operation are subject to regulation laid down by the Norwegian Maritime Directorate (Norwegian Ship Control Legislation - NSCL). During preparations for welding or hot works, the following item shall always be checked:

A : Gas levels measured in tanks where work is to be carried out.

GPMK : What would be the most probable cause of high temperature readings for the bearings in a diesel engine?

A : Lubricating oil pressure is too low.

GPMK : What would be the most probable cause of overheated bearings?

A : Lubricating oil pressure is too low.

GPOC : Your ship has its main entry door from the maindeck on the starboard side, a few metres back from the front of the accommodation. It is also the closest emergency exit from the ships offices and the crew mess-room in the event of an emergency. You are about to commence loading cargo. There are no significant security concerns. What should happen to the door?

A : It should be closed, but not locked.

GPAA : The arrival ballast water must contain maximum 15ppm (parts pr. million) of oil to fulfil the regulations in force. How many ppm is 1% by volume.

A : 10000 ppm.



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

GPPO : In the chemical trade the acceptable means of cargo line segregation in case of two non-compatible products is:

A : By double blank flanges with a drain between them?

GPSS : What is the minimum number of immersion suits that are required to be provided for each open lifeboat under SOLAS rules?

A : 3

GPWW : If an engine does not turn when the starting air is applied, what could be the most probable cause?

A : Any of the alternatives.

GPQR : Why do we have to have an International Shorecoupling onboard? To be able to ...

A : Connect the firelines ship/shore

GPWM : In what HF-band is long distance transmission possible when both stations are located in Darkness:

A : 8 MHz

GPQW : Despite shipping lines having hulls coloured in the company livery colours e.g. black, blue, green, etc. refrigerated containers are now usually painted white. Which of the options given is the main reason for this?

A : White painted containers reduce the load on the refrigeration plant.

GPUB : When patrolling the car deck during a voyage you should observe the following elements:

A : Any abnormalities such as leakages, fumes, smoke or fire. Check if the lashings need to be tightened on lashed cargo.

GPWX : A fully refrigerated gas carrier, equipped with membrane tanks with MARVS less than 0.7 bar and cargo temperature less than -10 C. What type of barrier is required?

A : Complete secondary barrier.

GPWX : An LNG carrier is equipped with membrane type tanks with a MARVS less than 0.7 bar. What additional cargo containment requirements, if any, are needed for this type of cargo tank arrangement?

A : A full secondary barrier is required.

GQAU : What is very important before starting a steam driven piston pump?

A : That all the valves on the delivery side are open before starting.

GQEJ : What would it mean if whilst loading logs on deck the vessel started rolling from side to side?

A : Increasing capsizing moments



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

GQEJ : What would rolling indicate, on a vessel loading logs on deck?

A : Increasing capsizing moments

GQFE : Which statement is true about loading lifeboats?

A : Passengers with physical disabilities should go on lifeboats.

GQIW : Poster or signs shall be provided on or in the vicinity of survival crafts and their launching controls. Which one of the following requirements has to be included according to present SOLAS regulations?

A : Give relevant instructions and warnings.

GQJB : The lights here show those that must be exhibited by a vessel engaged in towing, as per rule 24 of the International Collision Regulations. But how long is the tow behind this vessel?

A : A vessel of more than 50m in length engaged in pushing a barge/barges ahead

GQND : When preparing a cargo tank on a liquefied gas carrier for loading cargo following inspection of the tank a number of different steps are required. What is the first step required after such an inspection?

A : Drying.

GQNX : Hydrocarbons belongs to a chemical group named:?

A : Organic substances.

GQNX : In discussing the chemistry of oil, to which of the following chemical groups do Hydrocarbons belong?

A : Organic substances.

GQNX : To which of the following chemical groups do Hydrocarbons belong?

A : Organic substances.

GQNX : To which of the following chemical groups do Hydrocarbons belong?

A : Organic substances.

GQPU : Is there any procedure prior watercleaning of coated tanks when last cargo is a hydrolysable product i.e. VAM, Acrylonitrile ?

A : Venting of the tank must be carried out after cargo discharge to ensure removal of any cargo which may have been absorbed into the coating system.

GQQR : Your vessel has been involved in a collision. As master you have to write about the accident in the log-book. In order to only write the facts in the log-book, which of the following procedures do you find most correct?

A : Find out from officers and crew who have been in connection with the collision, what they have seen, so that detailed and complete description of the sequence of events can be entered in the log-book.



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

GQSB : The following DSC-message was received:(see original)They need to listen on VHF-channel:

A : 16

GQTU : Is it allowed to gas up LPG on inert gas atmosphere?

A : We are allowed to gas up LPG on inert gas if the charterer do not instruct the vessel to use nitrogen

GQWF : A conventional reefer vessel operating a Controlled Atmosphere (CA) is approaching the port of discharge in Northern Europe. Which is the most suitable action to take from the options given?

A : Turn off the CA plant and thoroughly ventilate the cargo spaces under CA with fresh air just prior to arrival.

GRDU : The Training Manual shall contain instructions and information on the life-saving appliances and the best method of survival. The training manual shall contain detailed explanations of crew duties in relation to emergency situations. Which of the following tasks or duties shall be included in the manual according to present regulations?

A : Correct donning of life-jackets.

GRHB : The deaerating heater is used in

A : the closed-type feed-water system

GRKB : A vessel with a large transverse GM will have which of the following rolling periods?

A : Fast abrupt rolling period to small angles.

GRLM : You are on a chemical tanker carrying benzene in bulk. Which statement is TRUE?

A : Personnel working in regulated areas must use respirators

GRMA : What is a low location lighting system?

A : A light system powered by battery or fluorescent signs mounted at deck level indicating the way to the nearest exit

GRPI : What advantages does the eye have over the radar?

A : Can identify small targets

GRPM : A container vessel must alter her trim to depart even keel from the berth. Select the most appropriate means of altering trim.

A : By internal shift of ballast.

GRPO : You receive via the 8 MHz a DSC distress alert. The received DSC message is however distorted. The MMSI as well as the position are illegible. After listening at the 8 MHz telephone distress frequency, nothing is heard. This is because:

A : telephone signals in the same frequency band are generally weaker than DSC signals



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

GRRY : On a Container vessel, why should a container with a damaged corner post not be loaded?

A : Because it is weakened and could cause collapse of the stack.

GRRY : Why should a container with a damaged corner post not be loaded?

A : Because its strength is weakened

GRTR : At what time should lashings be released?

A : Lashings should not be released for unloading before the ship is secured at the berth, without the Masters express permission.

GRTS : Too low oil flow in the fuel oil separator (ALCAP) oil outlet line is caused by:

A : Bowl opens unintentionally during operation.

GRUR : Where and for what are rubber mats used on board a pure car carrier?

A : Under the loading ramp flap to prevent vehicle damage

GRUR : Where and for what are rubber mats used on board a pure RoRo car carrier?

A : Under the loading ramp flap to prevent vehicle damage

GRWD : When a Master takes the leadership in approaching a problem, Must his first action be a decision that will directly solve the problem?

A : Not necessary, he shall use all available resources. He should resist the temptation to step in and do it all by himself

GSCF : If a cargo is heated, which of the following happens?

A : Its weight does not change, but its volume increases - it expands.

GSCW : Which PH - values are recommended in a product used for washing a polished floor?

A : 38205

GSCY : What does this two flag hoist signal indicate?

A : I am in distress and require assistance

GSDT : Who is responsible for the vessels radio station and mandatory radio routines?

A : The master.



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

GSES : The rescue quoit of a liferaft is attached to a buoyant line whose length is at least:

A : 30 m

GSFP : Which one among the following information shall be marked on the container of an inflatable liferaft:

A : maximum permitted height of stowage above waterline

GSJU : On a RoRo vessel, what additional securing arrangements should be used when loading a vehicle on an incline or fixed Ramp

A : The Vehicle should also be chocked under its wheels

GSJU : Where are pilot lights required to be fitted for stern/side loading ramps?

A : On the bridge

GSJU : Where are the pilot lights for stern/side loading ramps required to be fitted?

A : On the bridge

GSQF : A high speed diesel engine operates with a monobloc inline high pressure fuel pump consisting of a number of helical type pump units contained in a single housing. From the options given select the method which is the most common one available for adjusting the fuel timing onboard where no specialist setting up equipment is available.

A : Adjustment of the drive coupling to the driven coupling for the HP fuel pump using reference marks to No 1 cylinder TDC.

GSQL : Which one of the listed requirements regarding containers for inflatable liferafts do not correspond to present regulations? The liferaft shall be packed in containers that are:

A : completely watertight

GSUU : Vegetable and animal oils undergo decomposition over time, generating obnoxious and toxic vapours and depleting the oxygen in the tank. What name is given to this process?

A : Putrefaction.

GSWB : A polarisation of a radio wave is determined by:

A : position of the aerial

GSWB : A polarisation of a radio wave is determined by a:

A : position of the aerial

GSWF : Where can you find the requirements regarding the number of persons required on duty during oil transfer ?

A : Oil Transfer Procedure manual



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

GSWG : When the fire alarm signal is sounded every member of the ships crew shall immediately proceed to their assigned fire station. Which one of the following signals is used as fire alarm signal on board cargo ships?

A : Intermittent signals by the ships alarm bells.

GSXA : In slop handling, what is meant by "settling"?

A : Separation of water and oil.

GTDU : Which law applies to NIS-ships?

A : Norwegian law unless otherwise provided in or pursuant to a statute?

GTGB : B Class divisions in ships are constructed so that they are capable of preventing the passage of flame to the end of a standard fire test held for:

A : 30 minutes

GTHV : A crosshead pin for a large bore 2-stroke diesel engine has to be refurbished following bearing failure. The surface finish required is measured as a centre line average, CLA. Select, from the options given, the standard of finish that should be achieved during the refurbishment.

A : 2.5 micron CLA

GTJJ : Must you be certified to be a lifeboat-commander?

A : Yes, you must attend to a course held by certified personnel, and then be certified by national authorities (NMD, USCG, etc)

GTJL : Can an agreement of employment for service on a NIS ship be verbal or has it to be confirmed in writing?

A : The company has to ensure that an agreement is always confirmed in writing

GTQE : The grabline of a lifebuoy has a length of:

A : 4 times the outer diameter of the lifebuoy

GTRA : Some equipment may be marked with the following symbol: What does it mean?

A : Intrinsically safe.

GTRA : Some equipment may be marked with the following symbol: What does that mean?

A : Intrinsically safe.

GTSU : You are on a vessel 60 nautical miles off the coast of the nearest land, Algeria, in the Mediterranean Sea. Are you allowed to dump empty glass bottles overboard ?

A : No, glass bottles can not be dumped overboard



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

GTQ : Two identical medium speed engines are connected through clutches and a reduction gearbox to a single controllable pitch propeller. It is noted during normal operation that the load sharing between the engines is uneven with one engine taking a greater proportion of the load as the total load increases even though they are equally loaded at low load. Select from the options given the most likely cause of this problem.

A : The governor droop settings are incorrectly set and are not matched.

GTTS : What is the best way to avoid pollution from small oil-spills aboard a ship?

A : Contain any oil-spill onboard the ship

GTUL : A ro-ro unit weighing 18mt is to be loaded in the fore and aft direction and lashed by belts of SWL 2mt. How many lashing belts should be used to secure the unit?

A : At least 12

GTUL : A Standard Ro-Ro unit weighing 18mt is to be loaded in the fore and aft direction and lashed by belts of SWL 2mt. Using the general rule How many lashing belts should be used to secure the unit?

A : 9 on each side

GTVX : What will You do if the PH-value in the boiler water is over 11?

A : Blow the boiler and renew water until the PH-value is normal again.

GTWA : Which of the following options would be a typical differential pressure setting for a main engine slow down in the event of jacket cooling water system low flow?

A : 0,2 Bar

GTWA : Which of the following options would be a typical pressure setting for a main engine slow down in the event of jacket cooling water system low pressure?

A : 0,2 Bar

GTWW : On the air compressors crankcase there is a small valve that lets off overpressure. What do we have to do if this valve is letting of pressure and oil moisture ?

A : Overhaul the compressor unit.

GTYT : When checking the cylinder pressures of a 6 cylinder medium speed diesel engine it is found that one of the cylinders has a high maximum pressure. What is the most likely cause of this?

A : Fuel timing to that cylinder too far advanced.

GUDW : Cargo heaters are frequently used when discharging refrigerated LPG cargoes into pressurised shore tanks. What would be a typical "heating range" required from a heater for discharge of fully refrigerated propane?

A : From -45 C to -5 C.

GUDW : Cargo heaters are frequently when discharging refrigerated LPG cargoes into pressurised shore tanks. What would be a typical "heating range" required from a heater for discharge of fully refrigerated propane?

A : From -45 C to -5 C.



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

GUDW : With regard to cargo heaters what is the normal "heating range" on fully refrigerated propane?

A : From -45 C to -5 C.

GUGU : Is it allowed to gas up LPG on inert gas atmosphere?

A : We are allowed to gas up LPG on inert gas if the charterer do not instruct the vessel to use nitrogen

GUNK : The cargo hold air-circulating system normally permits 2 speeds (45 and 90) air-changes on the cargo hold air fans. Which air-speed will You use when You carry banana cargo?

A : 90 air-changes.

GUNM : What is the meaning of this symbol ?

A : Rescue boat

GUNQ : What could be the reason to knocking in the engine?

A : The gudgeon pin, big end-, or main bearing clearances is too large.

GUNS : What does the abbreviation ABC mean in first aid?

A : Air, Breathing, Circulation.

GUNT : A refrigerated container is loaded on deck. On inspection it is noted that the door seals are damaged. Select, from the options given, the main reason why it is unacceptable to have a refrigerated container in such a condition.

A : If the door seal is damaged the cargo may spoil due to ingress of warm air.

GUON : What is the correct definition of: -gangway?

A : Portable bridge between ship and shore.

GUPA : How often should greasing of pump bearings take place?

A : As specified in the vessel' s Planned Maintenance System, (Ref. Makers Instruction).

GUQD : A ship is fitted with davit launched liferafts. How often should onboard training take place, including, when practicable, the inflation and lowering of a liferaft?

A : Every four months

GUUB : A cargo of steel swarf and borings (waste steel material from industrial processes) carried on a Bulk Carrier, is particularly liable to what?

A : Oxygen depletion in the cargo space and self-heating of the cargo



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

GVAB : What is the maximum allowable filling limit on cargo tanks on gas carriers?

A : 98%.

GVAB : What is the normally accepted maximum allowable filling limit for the cargo tanks on an LNG carrier?

A : 98%.

GVGW : Which one of the following materials belong to Class 9, according to the IMDG code?

A : Dry ice

GVI0 : Unfortunately a fish hook has entered someones finger. The barb of the hook is even inside the skin. How to remove the fish hook?

A : Push the hook through the skin until the barb protrudes, then cut the hook between the barb and the skin and gently withdraw the hook

GVI0 : Unfortunately a fish hook has entered someones finger. The barb of the hook is even inside the skin. How to remove the fish hook?

A : Push the hook through the skin until the barb protrudes, then cut the hook between the barb and the skin and gently withdraw the hook.

GVIP : Why is it important to have min. 7 bar (100 PSI) back pressure at the ships manifold?

A : Charterers requirement in this example.

GVKX : A standard self-contained breathing apparatus is capable of functioning for at least

A : 30 minutes

GVLW : How much water per person is provided in a lifeboat not equipped with a desalting apparatus?

A : 3 litre

GVRS : The purpose of the "flame scanner" on the boiler is

A : shut off the oil flow if the flames goes out

GVVC : The sound level of the telephone in the tele-microphone on the panel of e.g. an MF/HF radio-telephony installation is adjusted with:

A : is fixed by manufacturer

GVWW : Poster or signs shall be provided on or in the vicinity of survival craft and their launching controls. Which one of the following requirements has to be included ?

A : give relevant instructions and warnings



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

GVWW : Poster or signs shall be provided on or in the vicinity of survival craft and their launching controls. Which one of the following requirements has to be included?

A : give relevant instructions and warnings

GVYK : What is the name given to a devastating explosion that may occur when a rigid container containing a liquefied gas is exposed to a very high *temperature?

A : BLEVE

GWCT : A ship moving through heavy seas is affected by the water pressure at the bows causing an effect known as "Panting". What structure in the forward region of the ship combats the effects of Panting?

A : Panting beams and stringers

GWDJ : How can we maintain necessary NPSH?

A : By control of liquid flow

GWEB : A ship in distress should transmit the appropriate alarm signal followed by the distress call and message on one or all of the international distress frequencies. Which of frequencies is in accordance with the present recommendations?

A : 500 kHz, 2182 kHz and 156.8 MHz

GWGP : Which one of the listed requirements regarding the stowage of a survival craft corresponds to present SOLAS regulations? Each survival craft shall *be stowed:

A : In a secure and sheltered position and protected from damage by fire or explosion

GWID : Give the meaning of the following symbol

A : EPIRB

GWJJ : What measures should be taken in order to avoid flammable gases forming on top of coal cargoes on a Bulk Carrier?

A : Ventilation to be carried out as indicated in the IMO solid Bulk Cargo Code

GWKU : How is the painter attached to the lifeboat released once the boat is waterborne and ready to leave?

A : Remove the toggle which will release the painter

GWMN : The word SCHIP is spelled conform the international phonetic alphabet:

A : Sierra, Charlie, Hotel, India, Papa

GWNI : During bilge pumping operations the pump suction gauge indicates a high vacuum. What is the most likely cause of the high vacuum reading?

A : A glogged bilge strainer



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

GWOH : How would you deal with a containerised scrap metal fire?

A : Extinguish by smothering

GWOH : On a Container vessel, how would you deal with a containerised scrap metal fire?

A : Extinguish by smothering

GWPU : What danger is associated with loading high cube containers, on deck?

A : The centre of gravity of the entire container stack is raised

GWPU : What weakens a twistlock?

A : Pitting

GWQE : What is the name given to the short initial wash at the unloading port, applied to tanks that have just contained certain special cargoes and where the washings are landed to shore?

A : A MARPOL pre-wash.

GWQE : Your ship has its main entry door from the maindeck on the starboard side, a few metres back from the front of the accommodation. It is also the closest emergency exit from the ships offices and the crew mess-room in the event of an emergency. You are about to commence loading several grades of chemicals. There are no significant security concerns. What should happen to the door?

A : It should be closed, but not locked.

GWUM : How are ships stability characteristics affected by Parametric Rolling?

A : By the constant change of underwater hull geometry as waves travel past the ship

GWUM : How are ships stability characteristics affected by Parametric Rolling?

A : By the constant change of underwater hull geometry as waves travel past the ship

GWUM : How is stability affected during Parametric Rolling?

A : By rapidly changing waterplane areas

GWYG : Which of the following will be reported to a company on the emergency phone?

A : All accidents where crew are injured or killed

GXAX : Can slop tanks be used for the carriage of oil and are they therefore included in the total cargo capacity of an oil tanker?

A : Yes it is.



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

GXDQ : Frostbite is one of the main hazards that personnel must be aware of when working on liquefied gas carriers. Which of the given options is the recommended first aid treatment for a person with frostbite injuries to the hand?

A : Place victims hands in a bowl of lukewarm water to gradually warm them up.

GXFW : Which item among those below is included in the normal equipment of every lifeboat ?

A : one daylight signalling mirror

GXIS : The cargo tanks for liquefied gas carriers are grouped into 4 types depending on the survival capability requirements. Which of tank types is suited for the carriage of all cargoes listed in chapter 19 of the IMO IGC Code from a survival capability aspect?

A : 1G

GXIS : Which tank type can carry all cargoes listed in chapter 19 in the IMO IGC Code?

A : 1G

GXLQ : From the options given, choose the one most likely to result in a high exhaust gas temperature in one cylinder of a diesel engine.

A : The inlet- and exhaust valve tappet clearance is off adjustment.

GXLQ : From the options given, choose the one most likely to result in a high exhaust gas temperature in one cylinder of a four stroke diesel engine.

A : The inlet- and exhaust valve tappet clearance is off adjustment.

GXLT : Who is responsible for the regular security inspections of the ship?

A : The Ship Security Officer

GXMX : What do you understand by: Let go the tug?

A : Let go the tug means: to cast off the lines that secure the tug to the ship

GXMX : What do you understand by the term: "Let go the tug"?

A : Let go the tug means: to cast off the lines that secure the tug to the ship

GXNG : Where do we find information about the ships fire preparedness?

A : Information about the ships fire preparedness do we find in the alarm instruction

GXOD : Which one of the following international regulations is normally used when handling dangerous goods?

A : IMDG code



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

GXQS : While alongside at a repair berth a new section of seawater pipe has been fabricated in a shoreside workshop from drawings supplied by the vessel. During fitting of the pipe by ships engineers it is noted that the pipe is too short leaving a gap of about 8mm between the flange faces. What action should be taken to remedy this problem?

A : The pipe should be returned to the shoreside workshop for modification or to be remade to the correct dimensions.

GXR D : What maximum suction head can be expected from a fire pump?

A : Approximately 5 metres

GXWS : Over a period of a few hours of operation the main diesel engine speed gradually falls off. From the options given what is the most likely cause of this fault?

A : Fouling of turbocharger intake filters.

GXXF : Several cargoes require determination of pH values (acidity) which is often a measure of quality or degradation of cargo such as animal or vegetable oil during transport. A neutral solution has a pH value of:

A : 7

GXYD : A vessel engaged in fishing and a power driven deep draft vessel restricted in her ability to manoeuvre are crossing so as to involve risk of collision. Which vessel keeps out of the way of the other?

A : The fishing vessel keeps out of the way of the power driven vessel restricted in her ability to manoeuvre

GXYD : A vessel engaged in fishing and a power driven deep draft vessel restricted in her ability to manoeuvre are crossing so as to prevent the risk of collision. Which vessel keeps out of the way of the other?

A : The fishing vessel keeps out of the way of the power driven vessel restricted in her ability to manoeuvre

GXYX : The following DSC-message was received:(see original)At what time was the position of the vessel in distress made?

A : 00:00

GYAW : You are drifting with a loaded VLCC in open sea and have observed the direction and rate of drift. Can you do anything to change the direction and rate of drift?

A : We can trim the ship by stern as much as possible. This will most likely change the direction and rate of drift

GYAW : You are drifting with a loaded VLCC in open sea and have observed the direction and rate of drift. Can you do anything to change the direction and rate of drift?

A : - Use the Bow Thrusters to change the ships head and monitor any changes in the drift

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A : - Use the Bow Thrusters to change the ships head and monitor any changes in the drift

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A : We can trim the ship by stern as much as possible. This will most likely change the direction and rate of drift



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

GYBP : Mention three ways of adjusting a centrifugal pump's delivery capacity.

A : Throttling the delivery valve, adjust the RPM, by-pass.

GYLM : What is the correct name of the tool in the sketch?

A : Monkey wrench

GYMI : What are the functions of a flag state administration?

A : They have responsibility for setting, monitoring and enforcing standards of safety and pollution prevention on vessels flying the countries flag

GYQI : In a low pressure auxiliary boiler, what would be considered to be the maximum allowable chloride level of the boiler water?

A : 300 PPM.

GYQI : In a low pressure auxiliary boiler, what would You consider to be the maximum allowable chloride level?

A : 300 PPM.

GYVK : In pumprooms and pipe tunnels "flameproof" electric light fittings are generally fitted. This means that:

A : Gas may enter, but even if an explosion takes place the fittings is so strong that the explosion will be contained within it and will not be blow out?

GYVO : What is the potential effect on a steam boiler of having calcium based compounds present in boiler water and proper water treatment is not carried out?

A : Loss of alkalinity, corrosion of boiler metal surfaces, and loss of phosphate reserve in the boiler.

GYVQ : Whilst proceeding along a narrow channel the vessel astern wishes to overtake you on your starboard side and gives the appropriate sound signal. Assuming that you are in agreement with this, what sound signal should you make?

A : One prolonged, one short, one prolonged and one short blast

GYVS : What is the correct name of the part highlighted in the sketch?

A : Camshaft

HACL : What kind of gas measuring equipment is required to be on board when loading Ethanol ?

A : Equipment for detecting flammable vapours.

HADH : If there is never any water in the lubricating oil, why must we add water to the self cleaning separator bowl

A : To minimise oil losses and prevent the sludge getting too hard



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

HAEF : What cooling medium is normally used to cool the condenser of a fresh water generator?

A : Seawater

HAER : The position of the ship is found by taking a series of bearings using a magnetic compass. How should an error of 5 degrees WEST be applied to the compass bearings?

A : Subtract 5 degrees to the bearings

HAFF : How would you establish if a health certificate issued by a foreign country was acceptable to the British authorities?

A : Check in appendix 2 of MGN 1

HAIC : The piston rod of a large two stroke diesel engine has been damaged and is heavily scored in way of the piston rod gland (stuffing box). It has been decided that it is economically viable to recondition the rod at a shoreside facility. Select, from the options given, the most suitable repair method that should be used?

A : Recondition the rod by surface grinding and build up using plasma spraying with metal similar to the original.

HAJA : Prior to the lunch break, the Engineer on Duty observes that the operating generator set has an output of 90%. With regard to operation of the generator, what is the - most important - assumption(s) for him to check before switching to UMS-mode?

A : That a secondary auxiliary set is switched to automatic standby mode

HAKB : On a RoRo vessel, what is Lashing equipment used for

A : To prevent the cargo from shifting during the voyage

HAKB : What is weblash equipment used for?

A : Securing project cargoes and cargoes on bolsters

HANA : For which type of cargo are general cargo ships not designed?

A : Carriage of containers

HANA : What is the most important factor to consider during the loading of a heavy lift weight from the quayside onto the deck of a general cargo ship, using the ships derrick?

A : Retaining a positive stability during the lifting and swinging process

HANH : Where in the personal computer is the BIOS system located?

A : On the motherboard

HANI : The temperature control system of the crankshaft bearings of the main engine indicates high temperature. What would be the correct action to be taken with regard to opening and checking of the crankcase?

A : Stop the engine immediately and keep the luboil pump running for at least 20 minutes before opening the crankcase?



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

HAPC : How shall you treat the dishwashing machine?

A : It shall be cleaned daily and oiled and inspected regularly.

HAQP : How would you control cargo hold bilges?

A : By pumping test of each bilge before loading?

HARO : Use Kirchoffs current law and Ohms law to calculate the value of the current I for this circuit.

A : 22 A

HARQ : Define the class of emission H3E :

A : Radiotelephony - Single sideband full carrier

HAAF : All passenger ships are divided into vertical 'zones'. What is the purpose of this?

A : This is firezones which can be divided from eachother with firedoors. If a fire start in one zone, all firedoors in front and aft of the fire will be closed from the bridge to stop the smoke and fire from spreading.

HAWM : How often must a crew member participate in a fire drill?

A : Once every month

HAXV : On a container vessel, what dictates the roll angle and natural roll period of the ship?

A : Metacentric height

HAYE : Ordinary toilet soap is an:

A : Alkaline cleaner.

HAYG : If on low-power, VHF channels 15 and 17 may be used for:

A : on board communications (intra-ship traffic)

HBDB : On a Container vessel, when will a full container experience a force of 100% of its weight?

A : When the ship is heaving

HBDB : When will a full container experience a force of 100% of its weight?

A : When the ship is heaving



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

HBDB : Why should the accommodation ventilation system be shut down when a container containing Class 6 (IMDG) cargo is on fire?

A : So that accommodation spaces are protected against toxic vapours

HBGG : On a RoRo vessel, why should there be no more than two lashings secured to any one point on a ro-ro unit?

A : Because the vehicle securing point is likely to break in heavy weather

HBGG : Why should there be no more than two lashings secured to any one point on a ro-ro unit?

A : Because the vehicle securing point is likely to break in heavy weather

HBOG : In which ships are one water fog applicator required for each pair of breathing apparatus? (SOLAS II-2/17.3.2)

A : Passenger ships carrying more than 36 passengers

HBJX : You are Sen.Off.Deck onboard a merchant vessel. During the night you have been in a collision with a sail boat and there are no signs of life in the water. What would you do?

A : Alarm the rescue centre and commence searching for any survivors

HBJX : You are Sen.Off.Deck onboard a merchant vessel. During the night you have been in a collision with a sail boat and there are no signs of life in the water. What would you do?

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HBJX : You are Sen.Off.Deck onboard a merchant vessel. During the night you have been in a collision with a sail boat. There are no signs of life in the water. What would you do?

A : - Alarm the rescue centre and commence searching for any survivors

HBJX : You are Sen.Off.Deck onboard a merchant vessel. During the night you have been in a collision with a sail boat. There are no signs of life in the water. What would you do?

A : Alarm the rescue centre and commence searching for any survivors

HBJX : You are Sen.Off.Deck onboard a merchant vessel. During the night you have been in collision with a sail boat. There is no sign of life in the water. What will you do?

A : Alarm the rescue centre and commence searching for any survivors

HBJX : You are Sen.Off.Deck onboard a merchant vessel. During the night you have been in collision with a sail boat. There is no sign of life in the water. What will you do?

A : - Alarm the rescue centre and commence searching for any survivors

HBKY : On a container vessel, what hazard is associated with carrying ammonium nitrate?

A : It can explode



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

HBKY : What hazard is associated with carrying ammonium nitrate?

A : It can explode

HBOC : This circuit consists of a voltage source V , a change-over switch S , a resistor R and an inductor L . The figures 1 to 4 show possible changes in the voltage $V(L)$ in case the switch S is suddenly shifted from position 1 to 2 at time $t = 0$. Only one of the diagrams is correct. Which?

A : Figure 1

HBOC : This circuit consists of a voltage source V , a change-over switch S , a resistor R and an inductor L . The voltage/time figures 1 to 4 show possible changes in the voltage $V(L)$ in case the switch S is suddenly shifted from position 1 to 2 at time $t = 0$. Only one of the diagrams is correct. Which?

A : Figure 1

HBPJ : How can an LNG carrier fitted with prismatic tanks be distinguished from an ordinary oil tanker?

A : The freeboard of an LNG carrier is significantly greater.

HBPJ : How to distinguish a LNG carrier with prismatic tanks from an ordinary oil tanker?

A : The freeboard of an LNG carrier is significantly greater.

HBQV : Does the employer have to give a reason for a notice of termination?

A : Yes, if the seafarers demands it

HCAT : During routine checking of an engine after start up it is discovered that a pipe leading to a starting air valve is hot. Is this due to;

A : A sticking start air valve.

HCAT : During routine checking of an engine following start up it is discovered that the start air pipe to one of the cylinders is hotter than normal. What is the likely cause of this problem.

A : A sticking start air valve.

HCAT : During routine checking of an engine following start up it is discovered that the start air pipe to one of the cylinders is hotter than normal.. What is the likely cause of this problem.

A : A sticking start air valve.

HCBI : SOLAS reg II-2 and IMO MSC.1/Circ 1321 requires that cargo pump rooms on oil tankers shall be mechanically ventilated, using non-sparking suction type fans. What is the minimum number of changes of air per hour that a ventilation system must deliver?

A : A fixed sprinkler system at the cargo manifold

HCBO : Which of the following would be considered pollution under the US water pollution laws?

A : All of the mentioned



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

HCBO : Which of the following would be considered pollution, when discharged overboard, under the US water pollution laws?

A : All of the mentioned

HCCJ : What HF-band is generally suitable for long distance transmission if one of two stations is Located in twilight

A : 12MHz

HCCO : When carrying high sulphur coal on a bulk carrier, which areas of a cargo hold are prone to corrosion?

A : Steelwork with which wet cargo is in contact

HCCO : When carrying high sulphur coal which areas of a cargo hold are prone to corrosion?

A : Steelwork with which wet cargo is in contact

HCCW : There is a permanently mounted mixer in the galley. It breaks down. What should the galley staff do about it?

A : They should report the defect through the proper system on board, isolate the power supply and place a notice on the mixer stating that it should not be used.

HCFX : How can an approximate value of the initial transverse Metacentric Height (GM) be found from the Curve of Statical Stability (GZ curve)?

A : Drawing a tangent to the curve through the origin and erecting a perpendicular through

HCJG : What are the effects of a bulk vessel loading a high density cargo resulting in a large metacentric height (GM)?

A : Have a fast roll period and possibly suffer racking stresses

HCMG : What are "contractual clauses"?

A : Part ALC 1d of the crew agreement, giving details of specific terms and conditions for seafarers

HCNP : A producer is attempting to reduce costs by packing his fruit in cheap, poor quality cardboard cartons. Which of the given options would be the most likely outcome of using inferior quality cartons for packaging of perishable cargo for carriage in a refrigerated vessel?

A : The lower rows of cartons in the stow will collapse and cause crush damage to the cargo.

HCQM : Which one of the following appliances is allowed to burn an oil fuel, the flash point of which may be a little bit lower than the one used for the main *engine?

A : The emergency generators

HCTV : What must be carefully checked when loading a bulk carrier to maximum draft

A : The minimum bow height must be maintained



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

HDAT : For a large decrease in the specific gravity of the oil, the gravity disc hole diameter should be:

A : Increased.

HDBM : What is the correct handling to mops and cloths when cleaning is finished?

A : Wash thoroughly and hang up for drying.

HDCJ : Which item among those below is included in the normal equipment of every lifeboat ?

A : one whistle or equivalent

HDFT : Which section number does the following provision have in the Act concerned; "Norwegian law applies to every ship in the Norwegian International Ship Register unless explicitly otherwise provided in or pursuant to a statute"

A : Section 3.

HDFT : Which section number does the following provision have in the Act relating to a Norwegian International Ship Register concerned; "Norwegian law applies to every ship in the Norwegian International Ship Register unless explicitly otherwise provided in or pursuant to a statute"

A : Section 3.

HDJV : What can be the result of public supervision of maritime service of seafarers?

A : It could be any of the alternatives listed.

HDKP : How much food per person is supplied on a liferaft?

A : Not less than 10000 kJ

HDOT : Which of the following two digits codes is used to obtain medical assistance ?

A : 38

HDPT : How often must the safety officer complete an inspection of the entire ship

A : Every three months

HDQQ : What is the meaning of this symbol ?

A : Rescue boat

HDRH : Depending on density or API, an error measurement of 0.1 degree Fahrenheit in a tank containing 50,000 cubic metres (314,491 barrels) of oil will result in which of the following volumes?

A : 25 cubic metres (157 barrels).



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

HDSW : By what date must ALL vessels fully comply with GMDSS requirements?

A : 1st February 1999

HDTU : Which symptoms would indicate piston blow-by when operating a 4 stroke trunk piston type engine ?

A : Smoke and increased pressure in the crankcase of the engine.

HDVM : Welding and use of open flames on board tankers in operation are subject to regulation laid down by the Norwegian Maritime Directorate (Norwegian Ship Control Legislation - NSCL). During preparations for welding or hot works, the following item shall always be checked:

A : Type of oil or gas chemicals having been carried in the actual tank and the adjacent tanks.

HDXB : Which one of the listed radio distress frequencies is reserved for survival crafts?

A : 8364 kHz

HDXC : Which of the following alternatives are recommended when decanting water overboard from the sloptank?

A : Leave a "cushion" of water in the sloptank, to minimize the risk of polluting the sea

HDXU : Where shall manually operated call points be found?

A : So that no part of any corridor is more than 20m away from any manually operated call point

HDYY : What is typical for a P(proportional)-controller

A : It will always be a deviation between the set-point and the process value

HEBD : The Chief Engineer tells you to carry out Hot work on deck. What kind of permit do you need?

A : Hot work permit

HEBH : In order for fuel oil to burn properly it must

A : all alternatives

HECE : A standard convention for a 4 deck reefer vessel is to designate the decks A to D from upper to lower deck. Decks A and B common as are C and D with a gas tight seal between B and C. Apples are to be carried in decks C and D with bananas in A and B. Which of the options is the best to avoid the risk of crossover of temperature and respiration between the two cargoes?

A : Create a pressure differential with a higher pressure in decks C and D.

HELB : A cargo hatch cover seal on a Bulk Carrier is known to be damaged and not weather tight prior to sailing; what is the legal significance of this situation?

A : The vessel may well be judged to be un-seaworthy; this could invalidate some certification and hull and machinery insurance



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

HEOT : Stainless steel tanks are sometimes required to be "passivated" especially after tank surface repairs have been carried out and aggressive cargoes are to be loaded. "Passivation" normally consists of:

A : Applying 12 - 15% nitric acid on tank surfaces, either with a brush or spray

HESS : What is the meaning of this symbol ?

A : Evacuation slide

HEST : Which one of the following requirements regarding lifebuoys corresponds to present SOLAS regulations?

A : Not less than half the total number of lifebuoys shall be provided with self-ignition lights.

HEVD : Which of the four figures illustrated shows the correct position line for the following situation: Latitude 50°00N, Longitude 30°00W, Time 1200 GMT. Course steered: 090° True, Speed: 12 knots, bearing of the sun: 200°, Intercept correction: 00°02 Towards (observed altitude - computed altitude).

A : Figure 2 is correct.

HEWF : What does "general daily cleaning" mean?

A : Removing trash, dusting and light cleaning in cabins, messrooms and WC.

HEWR : In describing the characteristics of an oil cargo, what name is given to the points between which the concentration of hydrocarbon vapour in air is such that it may be ignited and will burn?

A : Flammable limits

HEWR : What would it mean if a dangerous cargo was declared as Class 3 (sub risk Class 6)?

A : The main hazard is flammability and the secondary hazard toxicity

HFKD : Which of the following voltage levels would be regarded as high voltage likely to be found on a ship?

A : 6.6kV

HFLB : Where on board would you find out which fire sections are enclosed by "A" or "B" bulkheads and decks?

A : On the fire control plans

HFLG : In the situation illustrated, what should be the distribution of the power requirements from the tugs, if the ship is to be moved sideways without changing the heading? Both tugs have similar bollard pull and are of conventional propulsion.

A : Full power on the forward tug, reduce on the aft tug while checking the gyro

HFLG : In the situation illustrated, what should be the distribution of the power requirements from the tugs, if the ship is to be moved sideways without changing the heading? Both tugs have similar bollard pull and are of conventional propulsion.

A : - Much greater power on the forward tug than on the after tug while monitoring the gyro heading



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

HFMT : Which part of the float-free arrangement for inflatable liferafts is made to provide a connection between the ship and the liferaft?

A : the painter

HFNQ : Who is responsible for maintaining the vessels structural strength?

A : The master.

HFPI : What is the minimum number of fire control plans that should be permanently stored in a prominently marked weathertight enclosure outside the deckhouse for the assistance of shoreside fire fighting personnel?

A : At least one

HFQD : On area A4 the function "Transmission of ship to shore distress alerts" is mainly based on:

A : the use of HF DSC and SARTSAT COSPAS Epirbs

HFQI : Give the meaning of the following symbol

A : Secure hatches

HFRA : Give the meaning of the following symbol

A : Fasten seat belts

HFSQ : What is the purpose of the "Bowsing tackle" (block and tackle) supplied at each end of the lifeboat?

A : It keeps the boat alongside the embarkation deck so that the tricing pennants can be released

HFXU : Which are the main components in acid cleaning products?

A : Hydrochloric acid and citric acid.

HFXV : If on low-power, VHF channel 15 and 17 may be used for inter-ship radio traffic.

A : This is not correct, inter-ship has to be intra-ship

HFYQ : Which of the following duties shall be included in the "muster list" as being assigned to crewmembers in relation to passengers ?

A : assembling passengers at muster station

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CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

HGCS : What is a low location lightning system?

A : A light system powered by battery or fluorescent signs mounted at deck level indicating the way to the nearest exit

HGCY : You are approaching a port when you see three flashing red lights in a vertical line at the entrance. What does this indicate?

A : Serious emergency - all vessels to stop or divert according to instructions

HGDT : In what kind of atmosphere should tank washing be carried out onboard vessels with inert-gas system?

A : Inerted to less than 8% oxygen(IMO).

HGDW : When will the Hague-Visby rules apply?

A : When cargo is carried under a bill of lading

HGDW : When will the Hague-Visby rules apply on a General Cargo vessel?

A : When cargo is carried under a bill of lading

HGEO : Is too high separation pre-heating temperature harmful to lubricating oil

A : Not at temperatures used for pre-heating

HGFJ : What is the meaning of this symbol ?

A : Lower lifeboat to water

HGGE : You are in charge of a night bunkering operation. The delivery rate from the supplier is high and you are filling six tanks simultaneously. You loose track of the progress of the operation and feel that you are losing control of the situation. What action should you take?

A : Stop bunkering, and establish facts, before bunkering is resumed

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HGGY : A tank containing hydrocarbon residues requires manual cleaning by use of shovels, scrapers etc. Should you:

A : Open the tank, provide adequate ventilation/lighting, test oxygen content, have someone standing by with rescue equipment, complete a tank entry permit then commence work.



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

HGGY : A tank containing hydrocarbon residues requires manual cleaning by use of shovels, scrapers etc. Should you:

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HGHB : What is the reason too rising cooling water temperature at outlet of individual cylinders?

A : Cooling water spaces insufficiently vented.

HGHY : What is the definition of DEAD BAND?

A : The change needed in the input signal to produce a change in the output signal.

HGKK : How many fire hoses are required for cargo ships of 1000 gross tonnage and upwards (not including hoses in any engine or boiler room) ?

A : At least one hose for each 30 meter length of ship plus one spare

HGKK : How many fire hoses are required for general cargo ships of 1000 gross tonnage and upwards (not including hoses in any engine or boiler room) ?

A : At least one hose for each 30 meter length of ship plus one spare

HGLB : Which of the equipment listed is not included in the firemans personal equipment? (SOLAS II-2/17.1.1)

A : Leather safety boots and gloves

HGNW : Which branch of the MCA carries out statutory surveys?

A : Marine Officers of the MCA

HGOM : The details of a ship AAIC are contained in:

A : The ITU List of Ship Stations

HGON : The following vessels are all required to make the same sound signal when in or near an area of restricted visibility: a vessel not under command; a vessel restricted in her ability to manoeuvre; a vessel constrained by her draught / a sailing vessel; a vessel engaged in fishing; a vessel engaged in towing or pushing another vessel. What is that signal?

A : One prolonged blast, followed by two short blasts, at intervals of not more than two minutes.



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

HGWW :All ships carrying bulk liquid dangerous cargoes, including LNG, are required by IMO to complete a ship/shore safety check list every time cargo or inerting operations are carried out in port. Select the option which best describes the purpose of the ship/shore safety check list.

A : To ensure the continuing safety of personnel, ship and terminal.

HGWW :What is the purpose of the ship/shore safety check list?

A : To ensure the safety of personnel, ship and terminal.

HHBW : A centrifugal pump fails to deliver water after being idle for some time. There has not been carried out any maintenance on the unit since last time it was operated. What could be the reason for the malfunction?

A : The pump is not primed.

HHCJ : You are loading a cargo of Vinyl Acetate Monomer to several tanks on board. Tank 6 centre is about to finish and the next tank to load is 2 centre. How will you operate the valves to achieve this change-over?

A : I will open the valves for tank 2 centre and then close those for 6 centre, as the required ullage is reached.

HHCJ : You are loading a cargo of Vinyl Acetate Monomer to several tanks on board. Tank 6 centre is about to finish and the next tank to load is 2 centre. What sequence will you follow to achieve this change-over?

A : I will open the valves for tank 2 centre and then close those for 6 centre, as the required ullage is reached.

HHCO : Do you think a ships trim has any influence on steering abilities?

A : Yes, the ship usually steers better if trimmed by the stern

HHDN : Which of the following meats is most perishable in cold storage?

A : Pork

HHFA : What is the minimum number of independently driven fire pumps that must be provided on cargo ships of 1000 gross tonnage and upwards?

A : 2

HHFA : What is the minimum number of independently driven fire pumps that must be provided on general cargo ships of 1000 gross tonnage and upwards?

A : 2

HHFQ : A spare cylinder head for the generator needs to be lifted from its storage cradle to the generator flat. Because of its location the engine room crane cannot be positioned directly above it. What method should be used to bring the cylinder head into position?

A : Rig chain blocks to lift the cylinder head from its cradle and then transfer it gradually over to the crane hook by working the chain blocks.

HHHK : What is extracted rape seed meal, soya bean meal, cotton seed meal and sunflower seed meal?

A : Seed cake



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

HHIJ : On the figure 4 possible definitions of the term "CENTRE LINE" are given. Which one is the correct one?

A : Centre line is given by A on the figure

HHLE : During a stay in port, a towing wire is to be put out forward and aft. What is important to take care of regarding this wire?

A : That the wires are just above the water line at all times

HHMK : Based upon what factors is Seed Cake categorised in the Code of Safe Practice for Solid Bulk Cargoes (BC Code)?

A : The extraction process, oil and moisture content

HHNL : After disconnecting the telex connection via a LES, the time period is stated based on:

A : the time in minutes, or parts of it, when the landline was used

HHNN : Who would be signed on in section ALC 1b of the Crew Agreement?

A : The master, and any person who does not form part of the crew e.g. riding squad

HHPC : A hazard is a source of potential harm or damage or a situation with potential for harm or damage. Risk is determined based on evaluation of two elements. Which two elements?

A : The likelihood that a hazard may occur and the consequences of the hazardous event

HHRT : What term is applied to the technique of removing a portion of fish from the bone?

A : Filleting.

HHRT : What term is applied to the technique of removing a side portion of fish from the bone?

A : Filleting.

HHUD : When an evaporator is operated in extremely cold water you may need to throttle the seawater supply to:

A : Maintain the specified boiling temperature

HHUG : What temperature defines "hot" water in the context of tank washing?

A : At least 60 degrees Celsius.

HHUG : What temperature defines "hot" water in the context of tank washing on a chemical tanker?

A : At least 60 degrees Celsius.



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

HHWS : What is the minimum number of portable two way VHF walkie talkies for use in survival craft, that should be carried onboard vessels which comply with GMDSS regulations?

A : 3 sets

HHYI : The training manual shall contain instructions and information in easily understood terms and illustrated wherever possible. Which of the following objects do not have to be explained in detail in the manual according to present regulations?

A : Use of breathing apparatus

HHYM : Under GMDSS which VHF channel is used for Digital Selective Calling (DSC)?

A : Ch.70

HIBY : A distress call has been sent accidentally on your VHF DSC equipment. Which of the following is correct for cancelling the false distress alert?

A : 1. Switch off the transmitter - 2. Switch equipment on - 3. Make broadcast on channel 16 "Mayday all stations..." and cancel the false distress alert.

HIEO : To which of the following are the Hague-Visby rules applicable?

A : Contracts of carriage evidenced by a bill of lading

HIFC : The HF-band is in the frequency range:

A : 3 - 30 MHz

HIHW : Is it necessary in case of a distress alert via the Inmarsat A terminal to use the distress priority?

A : Yes, by "distress priority" one always is assigned a channel

HILS : You are going to inspect a fresh water tank together with one of the Engineers. Is it safe enough to open the manhole and enter the tank (it is only fresh water) or do you have to take extra precautions before entering?

A : Make sure that the tank/ enclosed space is gas free, ventilated and the oxygen content is measured. O2 content shall be 21% before entering the tank/ enclosed space

HINF : What fixed fire fighting medium do we normally use in the engine room, pump room and other spaces?

A : The fixed fire fighting medium in engine room, pump room etc. is Carbon Dioxide CO2, Halon or foam

HINH : An emergency situation on board must be reported to the company by:

A : The fastest means available

HINO : According to the IMO Gas Code, what is the requirement for the number of sets of portable gas detection equipment that must be carried onboard an LNG carrier?

A : There must be at least two sets.



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

HINO : What is the requirement to number of portable gas detection apparatus?

A : At least two sets.

HISI : When a new crewmember joins a ship for the first time, on-board training and instructions in the use of the ships life-saving appliances, including survival craft equipment and in the use of the ships fire extinguishing appliances shall be given as soon as possible. What is the maximum timeframe for completion of this training?

A : Maximum 2 weeks

HJWP : Norwegian merchant- and fishing vessels have to participate in the AMVER system. What is the purpose of AMVER?

A : It is an automatic system for plotting vessels for rescue purposes

HIXI : Where is the rudder axis located on an unbalanced rudder?

A : Just in forepart of the rudder square (figure 3)

HJXJ : Which one of the listed requirements regarding radiotelephone auto alarm do not correspond to present regulations? Automatic receiving equipment shall:

A : in presence of atmospheric or interfering signals automatically adjust itself

HJCN : Which of the listed requirements for cargo ships regarding personal life-saving appliances does not correspond to present regulations?

A : Ships fitted with free-fall life-boats may carry thermal protective aids instead of immersion suits

HJKO : You must not attempt to move a casualty carelessly, if you suspect patient with:

A : Fractured spine

HJLS : If it is found that a leakage from the gland of a centrifugal pump is excessive. The correct procedure is:

A : Re-pack the stuffing box loosely with the correct size packing at the earliest opportunity.

HJMN : What is the purpose of the « SQUELCH » on a VHF transmitter/receiver?

A : reduce the "noise" in the background

HJMQ : Which of the following services is not provided by INMARSAT A

A : Safetynet

HJNL : The diagram shows a the symbol for a component from a hydraulic circuit. What component does it represent?

A : Pressure relief valve.



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

HJNL : The diagram shows a the symbol for a component from a hydraulic circuit. What component does it represent?

A : A directional control valve.

HJPP : What has a major adverse effect on the manoeuvrability of a RoRo car carrier?

A : Wind

HJPP : What has an adverse effect on the manoeuvrability of a car carrier?

A : Wind

HJPY : What separation temperature do You recommend for heavy fuel?

A : 98 Centigrades

HJQR : During a visual inspection of a cargo of bananas a crewman notices that the fruit in one of the cartons is yellow. Select, from the options given, the best action to take in these circumstances.

A : Remove the carton from the cargo space if possible.

HJQV : What is the main use for polyurethane foam onboard an LNG carrier?

A : As insulation for the cargo tanks.

HJSI : Why are the L.P.G. compressors of "Oil Free" type design?

A : To prevent contamination of the cargo.

HJUO : What name is given to the knife used for cutting meat from a joint?

A : Carving knife.

HJUO : What name is given to the knife used for cutting meat from a joint during service?

A : Carving knife.

HJVM : What are the different branches of the MCA?

A : RSS, HM Coastguard, Marine Officers, Enforcement Unit, Channel Surveillance Unit, MPCU

HKDC : How many pyrotechnic signals to be in each lifeboat?

A : 4 Rocket parachute flares / 6 hand flares / 2 buoyant smoke signals



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

HKEH : It has been shown that the controlled release of oil is effective in reducing the effects of the sea, making it possible for a rescue craft to approach survivors in the water. How many square metres does the IAMSAR Manual suggest may be calmed by releasing 200 litres of lubricating oil slowly through a rubber hose with the outlet maintained just above the surface while the ship proceeds at slow speed?

A : - Approx 5,000 square metres.

HKKS : Where do we find regulations for construction of gas carrier?

A : In SOLAS and IGC Code.

HKKS : Which IMO publication deals specifically with the construction and equipment of liquefied gas carriers?

A : The IGC Code.

HKLJ : What refrigerant temperature would you expect to find at the compressor discharge of an air conditioning system?

A : + 85 ° C

HKMF : Which among the following list is required for lifeboat equipment according to present regulations ?

A : be as small and of as little mass as possible

HKNF : When you are calibrating an instrument what is the most common second step in the procedure?

A : Check linearity

HKNF : When you are calibrating an instrument what is the most common second step in the procedure (consult the manual)

A : Check linearity

HKSD : How many sections are included in the Crew Agreement?

A : 6

HKTA : What is the procedure for recording a death in the OLB?

A : Special section for Births and Deaths and also to be included in narrative section

HKUV : Give the meaning of this symbol:

A : lifebuoy with light

HKXB : A deadweight tester is used to check and calibrate a pressure gauge. The tester consists of a hydraulic pump and a hydraulic chamber and balance weight system. After completing the calibration of the pressure gauge the hydraulic pressure should be relieved before removing the weights. Select, from the options given, the main reason for this requirement.

A : To protect the piston in the hydraulic system from possible impact damage as it may



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

HKXE : Shall every seafarer bring with him a valid health certificate issued as per Norwegian provisions?

A : Yes

HKXO : Which of the following is a summary of the tank cleaning requirements for a category "X" substance on a chemical tanker constructed after 1st January 2007?

A : Prewash / strip to 75 litres / 12 miles from land / 25 metres of water / minimum 7 knots, proceeding en route.

HKYX : Is it the duty of the Master to see to it that legislation and CWA/CBA are available to seafarers on board?

A : The seafarers shall have available for their use the Seamen's and NIS-acts with regulations, together with all relevant CWA's/CBA's.

HLFN : What function is this operational amplifier circuit performing?

A : Inverting amplifier

HLFP : As understood within the IMDG Code, what is an "article"?

A : A device that contains a dangerous substance or mixture of substances.

HLHD : The Muster List shall show the duties assigned to members of the crew. Which of the following duties shall be included according to present regulations?

A : Manning of fire parties assigned to deal with fires.

HLIX : Where in accommodation spaces shall smoke detectors be located? (SOLAS II-2/13.2.2)

A : In stairways, corridors and escape routes

HLJS : PT-100 sensors are some times used with 3 or 4 wires. What is the reason for this?

A : Higher measuring accuracy.

HLJS : PT-100 sensors are some times used with 3 or even 4 wires. What is the reason for this?

A : Higher measuring accuracy.

HLLM : Which publication sets out in general the forces that cause cargo shifting?

A : The Cargo Stowage and Security (CSS) Code

HLLM : Which publication sets out the forces that cause cargo shifting on a General Cargo Vessel?

A : The Cargo Stowage and Security (CSS) Code



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

HLNC : A vessel where the engineering personnel are in charge of the whole technical installation is due for a voyage to a cold climate area. What special precautions should be implemented with regard to fire line/pumps and use of same?

A : All the mentioned alternatives

HLOW : The MESAR is a book of:

A : search and rescue at sea

HLQN : Which of following items shall be included in an abandon ship drill?

A : instruction in the use of radio life-saving appliances

HLRC : What is a "certificated" person which is placed in charge of each survival craft ?

A : a person who holds a "certificate of proficiency in survival craft"

HLUG : The seating surface of a superheater handhole door on a boiler has been damaged due to leakage of superheated steam leaving a cut across the surface. Which repair method, from the options given, would be the most effective?

A : Build up the cut with weld and re-machine the seat.

HLVJ : Indicate the correct name for the tool on the sketch:

A : Flat file

HLWF : What precautions must be taken before entering an enclosed space?

A : Space thoroughly ventilated, Oxygen and gas readings taken, communication set up, permit to work completed, Crewmember standing by, with rescue gear.

HLXE : What does the 1 Engineer want to have done?

A : He wants the heating coils inspected

HLXE : What does the 1 Engineer want to have done?

A : The First Engineer would require an inspection of the heating coils

HMBI : A sudden or gradual decrease in the pH-value, or an increase of the sulfate content, in the cooling water may indicate:

A : Exhaust leakage

HMEV : What would you serve at a cocktail party?

A : Assorted canapes.



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

HMGD : What is false regarding the function :” Transmission and reception of ship to ship distress alerts

A : On area A3 this function is based on the use of INMARSAT A, B or C

HMGN : The MMSI
i s :

A : a ship identity number

HMLF : Hygiene, what does it mean in general?

A : All preventive methods to avoid spreading of bacteria and fungus.

HMPK : Why is it important to issue “Note of Protest”?

A : To protect both owners and charterers

HMPR : What does MARVS mean on a cargo tank?

A : We mean maximum allowed relieve valve setting.

HMSW : Why is an inertgas system required when COW is undertaken?

A : Safety purpose?

HMTS : Besides certain other factors, a BOILOVER takes place:

A : When the container also contains water

HMXD : From the options, select the best description of the function of a buttress fitting on a container vessel.

A : To transfer forces from the container stow to the ships structure.

HMYN : During a routine seapassage the cooling water high temperature alarm system for one of the auxiliary engines is out of function and blocked. What will be the appropriate immediate action?

A : All the actions listed in the other alternatives

HNAL : Is there a time limit for when all liferafts must have been launched after sounding of abandon ship signal?

A : 30 minutes

HNCT : The figure shows a cross section through a ship floating in water, with the hull in red and the seabed below the ship shaded. On the figure there are four (4) possible definitions of the term “FREEBOARD” given. Which one is the correct one?

A : Depth is given by B on the figure



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

HNCU : When opening a Plate Cooler for cleaning, how should the bolts be removed?

A : Fully slacken and remove top ones first, then middle, then bottom.

HNHD : Which characteristic of chlorine makes it different to most of the other liquefied gas cargoes carried at sea?

A : Chlorine is non-flammable.

HNIB : What name is given to the flat, flexible, round-tipped knife, used to remove baked food from trays and for spreading fillings?

A : Palette knife.

HNLE : The fuel oil separator (ALCAP) bowl discharge is not working properly

A : Opening water function missing.

HNVG : During operation of the main engine, the exhaust temperature increases on one of the cylinders. The turbocharger starts surging and smoke from the turbocharger inlet air filter occurs. What is the probable cause?

A : Scavenge box fire

HNVG : During operation of the main engine, the exhaust temperature increases on one of the cylinders. The turbocharger starts surging and smoke is seen coming out from the turbocharger inlet air filter. What is the most probable cause?

A : Scavenge box fire

HNVI : The portable walkie talkies required to be carried by GMDSS regulations should have which channels as a minimum?

A : Channels 6, 13 & 16

HNWY : A balanced rudder has some of the rudder area forward of the rudder axis. About how much area should this be to call it a balanced rudder?

A : It should be about 20%

HNXE : You are on a power-driven vessel underway in open water. You sight these lights on the port bow, on a steady bearing. The distance is closing. What are you looking at and what action will you take in compliance with the International Regulations for Preventing Collision at Sea?

A : This is a power-driven vessel engaged in towing, less than 50 metres in length, length of tow under 200 metres and the tow, both being restricted in their ability to manoeuvre, seen from the s

HOCT : In relation to OPA 90, Which of the following statement is correct?

A : COTP-zones may have additional rules and regulations

HOFA : A situation arises where there is insufficient fruit cargo available to fill a cargo space. There is a cooler arrangement (cooler/evaporator/brine nest/fans) positioned at one end of the cargo space. Select, from the options given, the best method for stowage of the fruit.

A : Start at the end with the cooler arrangement and work away from the cooler.



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

HOJY : On a General Cargo vessel, the placards and labels on containers and pallets containing dangerous goods (IMDG Cargo) must be marked with what information ?

A : IMO Class, UN Number

HOLA : You are on a 10.000 ton Chemical Tanker that in addition to fixed foam monitors, is equipped with portable foam applicators. One of the applicators is lost. When ordering a new one you would order one with:

A : A throughput of at least 400 liters a minute and a "throw" of 15 metres?

HOLX : Which of the following should NOT be used on an electrical fire?

A : Water extinguisher.

HOMW : If a patient is bleeding from nose

A : Pinch soft part of the nose for 10 minutes while keeping the head forward over a basin

HOQE : Which of the pressures is the most satisfactory at the suction of an air conditioning freon compressor?

A : 4.5 bar

HORY : At what temperature would a fully refrigerated cargo of propane normally be carried on a liquefied gas carrier?

A : - 43° C

HOTH : Which of the following terms is used to describe a thermodynamic process in which no heat transfer into or out of the system occurs?

A : Adiabatic.

HOUE : Must you be certified to be a lifeboat-commander?

A : Yes, you must attend to a course held by certified personnel, and then be certified by national authorities (NMD, USCG, etc)

HOVJ : Why do all gas carriers have deepwell or submersible cargo pumps?

A : It is not permitted to have cargo pump-room below the upper deck.

HOVJ : Why do all LNG carriers have deepwell or submersible cargo pumps?

A : The Gas Codes do not allow cargo pump-rooms to be situated below the weather deck on LNG carriers.

HOWT : Which of the below statements characterizes the most significant differences between a water-tube boiler and a fire-tube boiler during operation?

A : Water-tube boilers are more efficient and contains less water. They suffer from major damages when run dry during operation.



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

HOYJ : Which one of the listed requirements regarding launching appliances for survival crafts and rescue boats do not correspond to present regulations?

A : All launching appliances shall be capable of recovering survival crafts and rescue boats with their crew

HOYS : Recording the pulp temperature of fruit at all stages of the transport chain provides a valuable record of the status of the product. Which of the procedures given in the options should be adopted by a deck officer when dealing with the fruit?

A : After taking the pulp temperature the individual piece of fruit should be discarded as the specimen used will usually spoil rapidly.

HPDQ : What will be the minimum volume of halon to extinguish a fire in an enclosed room?

A : 4.25% of the volume of the room

HPDU : Which is the "AFT BREAST LINE", in the figure?

A : Aft breast line is defined as B on the figure

HPGW : What type of heat exchanger is shown?

A : Plate

HPGW : What type of heat exchanger is shown in the illustration?

A : Plate

HPHR : Which electronic component is this graphical symbol illustrating:

A : Zener diode

HPHU : A person wearing lifejacket or immersion suit, shall be able to turn from a face-down to a face-up position in not more than:

A : 5 seconds

HPLE : When shall you use goggles?

A : When you need to protect your eyes.

HPLU : What procedures should prevent normal ship work activities conflicting with cargo operations on a General Cargo Vessel?

A : Risk assessments and permit to work systems

HPMA : A 6-Volt relay is to be used with a 12-Volt power supply. The relay requires a current of 0.1 Amp. What is the series resistance required.

A : 40 ohm



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

HPMR : In a cascade type direct cooling plant, as fitted to some liquefied gas carriers for cargo reliquefaction duties, a refrigerant gas is used to give final cooling and condensation of the cargo vapours. What level of refrigerant would you expect to see in the liquid receiver sight glass when the plant is operating at normal load?

A : 10 %

HPPB : On a two stage compressor you will find pistons with different diameters (one is bigger than the other). Which one of the following statements is correct ?

A : The smallest diameter piston is the stage two piston.

HPPC : A CBT-tanker arrives at the loading port in ballast condition. What is today's normal procedure for this type of vessel when loading?

A : Deballasting and loading simultaneously.

HPTH : What is the function of the Registry of Shipping and Seamen?

A : To maintain a record of all British ships and British certificates

HPVB : You are carrying out a search in a smoke filled compartment wearing a breathing apparatus. At what stage should you start to make your way out of the compartment?

A : Regularly check your pressure gauge and note how much air you used to reach your work area. Start to return when you have this amount left plus a reasonable reserve

HPVX : What is the meaning of this symbol ?

A : Immersion suit

HPXC : Where would you look for a summary of the important safety and handling information on a particular cargo loaded on your ship?

A : The Material Safety Data Sheet

HPXC : Where would you look for a summary of the important safety and handling information on a particular chemical cargo loaded on your ship?

A : The Material Safety Data Sheet

HQAX : At what rate shall a fixed high-expansion foam fire-extinguishing system fill the greatest space of an engine room with foam?

A : 1 m depth per minute

HQEF : This circuit is widely used for rectification of AC into DC. Which of the diagrams is correct for the out- put voltage when the input voltage is sine-shaped as shown?

A : Figure 1

HQGU : Buoyant smoke signals shall be so designed as to burn or emit smoke:

A : Continuously after having been immersed for a period of 10 seconds under 100 mm of



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

HQGU : Buoyant smoke signals shall be so designed as to burn or emit smoke:

A : continuously after having been immersed for a period of 10 seconds under 100mm of water

HQHT : Before engaging the Turning Gear, precautions should be taken to:

A : Shut off the starting air supply and open the indicator cocks

HQIS : What is the capacity of the required portable fluid extinguishers

A : Not more than 13,5 litres and not less than 9 litres

HQJG : Pantry and galley floors are often covered with ceramic tiles. What should be done to avoid accidents in rough weather?

A : Avoid spilling water and fat on the floors.

HQLU : Which is the "FORWARD SPRING", in the figure?

A : Forward spring is given by D on the figure

HQOH : Ro-ro passenger ships shall either carry automatically self-righting liferafts or canopied reversible liferafts. What does it mean that a liferaft is automatically self-righting?

A : The liferaft will automatically turn back into an upright position when it is empty of people

HQPE : Continuity testing of a delta connected three phase induction motor yields the following results; U-V =3 ohms, V-W =3 ohms, W-U =6 ohms. Which of the following is the likely condition?

A : Open circuit winding between W and U

HQQS : Gas detectors are widely used on liquefied gas carriers. Before using a portable combustible gas indicator which has not been used for a period of a few hours what action should be taken?

A : To do a full calibration.

HQWQ : The category of a DSC-call determines:

A : the degree of priority

HQWQ : The category of a DSC-call determines is:

A : the degree of priority

HQQY : You want to send a DSC distress alert via the HF-band. You prefer the:

A : 8 MHz band



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

HQRY : After passing through the scrubbing tower in an inert gas system on an oil tanker, what is the approximate level of carbon dioxide in the inert flue gas?

A : 13%

HQRY : Prior to its partial removal in a water scrubber, what is the approximate Sulphur Dioxide content of flue gas produced by the combustion of fuel oil?

A : 2,000 ppm.

HQVJ : Every oil tanker of 5,000 tonnes deadweight and above delivered on or after 1 February 2002 shall comply with intact stability. What is the minimum GM (metacentric height) when the vessel is in port?

A : Not less than 0.15 m

HQXO : On the figure 4 possible definitions of the term "BOW/STEM" are given. Which one is the correct one?

A : Bow/stem is given by B on the figure

HQXQ : The diagram shows the direction that a rope runs during a mooring operation and a possible place where it may break. Where would be considered the safest position to stand?

A : Outside the coloured zone.

HQYF : What does the acronym MARVS stand for in relation to liquefied gas carriers?

A : Maximum Allowed Relief Valve Setting.

HQYF : What does the acronym MARVS stand for in relation to LNG carriers?

A : Maximum Allowed Relief Valve Setting.

HQYF : What is the meaning of MARVS?

A : The meaning is Maximum Allowed Relief Valve Setting.

HQYU : A hazard is a source of potential harm or damage or a situation with potential for harm or damage. Risk is determined based on evaluation of two elements. Which two elements?

A : The likelihood that a hazard may occur and the consequences of the hazardous event

HRCT : Consider the situation sketched below. How will you distribute the power of the tugs when you want to move the ship sideways without any yaw?

A : Equal power on both tugs while checking the gyro

HRDG : Which one of the listed fire-extinguishing medium is most effective against an open oil fire?

A : Foam.



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

HREB : What kind of special safety measures are required when working on a stage aloft?

A : Harness with a rope secured to a safe point on the ship.

HREE : Choose the group of electrical power supplies that best fits the identification of "Mains"

A : No. 1 diesel and No. 2 diesel

HREY : What should the Fitter be asked to do?

A : He is to check the heater for the hydraulic oil

HRJV : Define the class of emission H3E :

A : Radiotelephony - Single sideband full carrier

HSIV : On a General Cargo ship which of the following statements is correct?

A : Cold rolled steel coils must never be loaded in rain

HSIV : Which of the following statements is correct?

A : Cold rolled steel coils must never be loaded in rain

HSTT : Hydrocarbon gas encountered in oil tankers cannot burn in an atmosphere containing less than approximately what percentage of oxygen (by volume)?

A : 11 %

HSUT : What will You do if the heat transfer capacity is dropping, and we know that flow and heat energy corresponds to the specifications?

A : Use the "cleaning in place" arrangement or open the heat exchanger for visual inspection and manual cleaning.

HSXB : Which of the named ships are not subject to SOLAS regulations?

A : Cargo ships of less than 500 tons gross

HSYU : Which of the following statements is NOT correct about high expansion foam?

A : You cannot survive in H.E. foam as the oxygen content is reduced.

HTAQ : By a vessel in distress a SART is used. This SART is seen on the screen of a:

A : 3 cm radar



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

HTAU : How many pyrotechnic signals to be in each lifeboat?

A : 4 Rocket parachute flares / 6 hand flares / 2 buoyant smoke signals

HTES : What is the requirement with regard to Familiarisation on board?

A : Seafarers, on being assigned to any ship, shall be familiarized with their specific duties and with all ship arrangements, installations, equipment, procedures and ship characteristics that ar

HTPS : What does this crane signal indicates?

A : Raise the load

HTPX : A casualty suddenly loses consciousness and falls to the ground letting out a strange cry. The pasient is red-blue in the face and froth may appear around the mouth. You are witnessing a major epileptic attack. What should you do?

A : Loose tight clothing, ask all unnecessary bystanders to leave and carefully place something soft under the head. If casualty is unconscious, place the person in Recovery position.

HTQN : The cooling water temperature out of the engine becomes too high. Everything else is normal. What is the reason for this?

A : Air in the cooling water system.

HTRK : On a container vessel, to whom should the Master immediately report a shipboard incident involving the loss overboard of dangerous goods?

A : The nearest Coastal state

HTRK : To whom should the Master immediately report a shipboard incident involving the loss overboard of dangerous goods?

A : The nearest Coastal state

HTRK : Which publication/document provides information on fire-fighting instructions for a particular containerised cargo?

A : The International Maritime Dangerous Goods (IMDG) Code

HTRN : At sea the fire detection system on the bridge activates and indicates smoke present in No 1 Hold of a General Cargo ship; what action should be taken?

A : Call Master , sound General Alarm, muster crew and prepare to investigate

HTSC : On area A1 the function " Transmission and reception of signals for locating " is mainly based on:

A : the use of SART transponders

HTVI : A Category "B" Chemical Cargo which has a melting point of more than 15° C. can be carried:

A : In tanks not adjacent to the ship's shell plating having heating coils?



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

HTYW : On the figure 4 possible definitions of the term "FORWARD SPRING" are given. Which one is the correct one?

A : Forward spring is given by D on the figure

HUHC : With an increase in temperature, the volume of a liquid chemical will do which of the following?

A : Expands

HUHC : With an increase in temperature, the volume of a liquid will do which of the following?

A : Expands

HUHC : With an increase in temperature the volume of flammable and combustible liquids :

A : Expands

HUIB : The IMO Code requires protection against spillage of the most dangerous products (ethyl ether, antiknock lead compounds such as TML and TEL etc) by prescribing that:

A : They shall be carried in cargo tanks independent of the ships hull structure?

HUPO : Which harbour can provide certain norwegian supplies?

A : Singapore

HUSV : What is the main fire fighting medium used for the cargo area of an oil tanker?

A : Foam.

HUTX : Which of the following has not to be noted in the radio log-book

A : Duration of public correspondence communications

HUWJ : During inspection and overhaul of a 2-stage reciprocating air compressor the main and bottom end bearing shells are found to be heavily scored with parts of the overlay and bearing metal breaking away. The crankshaft pins are found to have only very light surface scratches. Which of the given options is the best action to be taken to remedy the problem?

A : Replace the bearing shells with new spares after cleaning out the crankcase and refilling with clean oil.

HUXF : Which of the following food types are good sources of polyunsaturated and monosaturated fatty acids?

A : Fish, nuts and vegetables

HUYH : Which of the following is an oval-shaped, purple coloured vegetable, with white, spongy flesh, native to tropical Asia but popular today in Mediterranean cookery?

A : Aubergine (brinjal)



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

HVDJ : What is the name of the device used for continually checking ballast water as it is pumped overboard?

A : Oil Discharge Monitoring Equipment (ODME)

HVER : Which one of the listed requirements regarding abandon ship drills corresponds to present SOLAS regulation?

A : Each lifeboat shall be launched with its assigned crew, and manoeuvred in the water at least once every three months during an abandon ship drill

HVFL : What kind of safety equipment should be in place in connection with a grinding wheel?

A : Goggles and shield.

HVGC : You are duty officer on the bridge. An eye-witness has reported a man-overboard. Which of the following actions is the correct manoeuvre in this situation?

A : - Williamson Turn

HVGC : You are duty officer on the bridge. An eye-witness has reported a man-overboard. Which of the following actions is the correct manoeuvre in this situation?

A : Williamson Turn

HVGC : You are duty officer on the bridge. An eye-witness is reporting man-overboard. Which of the following actions are to be considered as the correct manoeuvre in this situation?

A : - Williamson Turn

HVGC : You are duty officer on the bridge. An eye-witness is reporting man-overboard. Which of the following actions are to be considered as the correct manoeuvre in this situation?

A : Williamson Turn

HVGD : What is the letter signal flag used by a vessel in response to an aircraft request for assistance in rescue operation?

A : Answering Pendant

HVGD : What is the letter signal flag used by a vessel in response to an aircrafts request for assistance in a rescue operation?

A : Answering Pendant

HVGH : During the anchoring procedure, what would the Chief Officer understand by the following request from the bridge, "Which way is it leading"?

A : He is asking about the position of the chain

HVIU : By what name are the regulations which control the cleaning operations after the discharge of noxious substances and prevent pollution from ships known?

A : MARPOL



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

HVIU : By what name are the regulations which control the discharge of noxious substances and prevent pollution from ships known?

A : MARPOL

HVJB : You are an assistant cook, working on a large passenger ferry. You have a boil on your left wrist, which has become infected. What must you do?

A : Report the condition to your superior, obtain medical assistance, avoid handling foodstuffs until the skin has healed.

HVJO : What is the main fire fighting medium for tank deck on gas and chemical carriers?

A : Chemical powder is the main medium for tank deck fire fighting on gas and chemical carriers

HVKH : What is the requirement for the atmosphere in the hold spaces surrounding cargo tanks that require a secondary barrier when carrying LPG cargoes?

A : Yes, neutral atmosphere in hold space on all gas carriers exempt from those who have independent type C tanks

HVKJ : Each ship fitted with a VHF radiotelephone installation shall according to the regulations listen on the distress frequency during navigation. Listening shall be:

A : Continuous

HWQG : What is the main rules as to period of notice of termination as per the Seamens Act?

A : One month

HWUB : Many modern medium and high speed diesel engines operate at very high power ratings resulting in relatively high bearing loads. In order to accommodate these loads the bearings are required to have a high load carrying capacity. What kind of bearings are normally used for main and bottom end purposes to achieve this?

A : Thin steel shells lined with aluminium tin alloys.

HWAX : Bulk Coal cargoes may produce methane and carbon monoxide gas; what are the main features of these two gasses?

A : Methane and carbon monoxide gasses are flammable and lighter than air

HWBC : Which of the following conditions could be the cause of an air conditioning system evaporator icing up?

A : Too low suction pressure.

HWCB : How many, minimum lines of positions are needed to decide a position using the decca system?

A : 2 lines of position.

HWDR : How many buoyant smoke signals are carried in each liferaft with SOLAS A pack?

A : 2



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

HWFK : When reasonable and practicable, how often shall rescue boats be launched with their assigned crew aboard and manouvered in the water?

A : Every month

HWHD : What is the function of the "scrubber" in the inert gas system on an oil tanker?

A : To cool, remove sulphur dioxide and particulate soot from the flue gas?

HWKI : Which of the following information shall be specified by the muster list ?

A : substitutes for key persons who may become disabled

HWLK : When cargo discharge reaches stripping levels on an oil tanker, it is necessary to reduce the inert gas pressure. Why is this?

A : To minimise blowback.

HWQG : The passage of electrical current through the body may result in severe and sometimes fatal injuries. You are witness to man getting electric current through his body and is stuck to the dangerous area. It is impossible to switch off the current by any main switch. How to break the current safely?

A : Stand on dry insulating material and pull the person away with insulating material.

HWQW : Why should boiler sootblowers normally only be operated in the correct sequence?

A : To ensure soot is cleared progressively from the bottom tubes to the top and toward the boiler uptakes.

HXBC : Give the meaning of the following symbol

A : Lower lifeboat to water

HXCQ : An area A1 is:

A : an area within the radiotelephone coverage of at least one VHF coast station in which continuous DSC alerting is available

HXGD : Within territorial waters the use of transmitters is prohibited. In general this does not apply for:

A : VHF-equipment

HXGI : Give the meaning of the following symbol:

A : rescue boat

HXHS : For how long shall a ship's log-book be kept on board?

A : For at least three years



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

HXIM : All closing arrangements, stowing of cargo etc. are subject to regulations by the Norwegian Maritime Directorate (NMD). Which of the following requirements regarding hatches, hatch covers etc. corresponds to present regulations? (NSCL 4/10.1.5 - 10.1.7)

A : When temporary bulkheads (bins) are used on deck, openings shall be arranged as to prevent water accumulating.

HXKF : You are going to start firing a boiler. Which of the below mentioned alternatives do you consider as most important?

A : A thorough ventilation of the combustion chamber before the ignition takes place

HXKL : What does the IMSBC Code emphasise with reference to the exposure of personal to the dust created when carrying some bulk cargoes?

A : A high standard of personal hygiene

HXMV : Not all crude oils can be used for crude oil washing. What is the common recommendation to use a crude oil for washing.

A : The temperature must at all times be 10 degrees Centigrade above the oil's pour point temperature.

HXNP : Which one of the listed requirements regarding inflatable liferafts do not correspond to present regulations? The inflatable liferaft shall:

A : have at least two entrances

HXSS : On a container vessel, a number of twistlocks have been identified as suffering wear down. Choose the most appropriate way of dealing with these twistlocks.

A : The twistlocks should be isolated from use and disposed of appropriately.

HXUC : The circuit symbol is a widely used system for converting AC voltage to DC voltage. In this case the input voltage is a sine-wave. Which of the shown diagrams is correct for the output voltage V(out.)

A : Figure 1

HXVA : What is the meaning of "stand by"?

A : That the watch keeping personnel shall be ready for starting or manoeuvring the main engine.

HXVJ : In the context of oil tanker operations, what is "clingage"?

A : Residues remaining on the inside of a pipeline, or on the internal structure of a cargo tank after an oil cargo has been discharged

HXWA : How much food per person is supplied on a liferaft marked SOLAS A PACK?

A : Not less than 10000 kJ

HXWY : Why is it important that the Chief Officer considers "solubility" when planning his tank-cleaning programme?

A : Because it will indicate if the cargo residues can be cleaned with water alone, or if a chemical additive will be needed to help break them down.



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

HXWY : You have just finished discharging several grades of chemicals. Why is it important that the Chief Officer has considered "solubility" when planning the tank-cleaning programme?

A : Because it will have indicated if the cargo residues can be cleaned with water alone, or if a chemical additive will be needed to help break them down.

HXYI : When muster to a lifeboat drill, what is the first thing you do when entering the muster station?

A : Put on your life jacket.

HYDL : The wearer of a lifejacket can jump into the water without injury and without damaging the jacket from a height of at least:

A : 4,50 m

HYEK : What is the most likely cause of the boiler exhaust gas being white in colour leaving the funnel?

A : too much combustion air

HYNT : What is a likely cause of fishmeal fires?

A : Ineffective antioxidant at the time of production

HYRN : What is the minimum number of channels required for the portable two-way VHF's for survival craft?

A : Channels 6, 13 & 16

HYRP : In case of a fire inside the Acetylene-line in the ac/ox gas welding equipment, what action is deemed necessary?

A : Close the valves on both the Acetylene and the Oxygen bottles.

HYSN : What type of buoy is this?

A : West cardinal buoy

HYTH : What is the point when it is possible to ignite the vapour above the oil called?

A : Flash point.

HYTJ : What rules and regulations are regulating the watch keeping routines in the engine room?

A : Both STCW and Class rules

HYUD : Your vessel is moving in Panama canal waters. When must the chief engineer remain on duty in the engine room?

A : When approaching or passing through locks and Gaillard cut.



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

HYVW : An important quantity which is useful in circuit analysis is known as conductance G (Siemens). Which of the formulas A to D expresses the conductance for this circuit?

A : $G = 1 / R$

HYVW : An important quantity which is useful in circuit analysis is known as conductance G (Siemens). Which of the formulas A to D expresses the conductance for this circuit?

A : NAND

IACL : What is the name given to the risk assessment programme developed by OCIMF, under which tankers are inspected and the results made available to potential charterers through a database of records?

A : The Ship Inspection Report Programme (SIRE).

IAFK : Give the meaning of the following symbol:

A : muster station

IAFM : If a distress signal is received, what would you do?

A : All of the alternatives together.

IAKJ : An indicator card from a cylinder of a slow speed diesel engine show a high maximum pressure occurring earlier in the cycle than normal with a normal compression pressure. From the options given, which action is most likely to identify the cause of the problem?

A : Check if fuel injection is too early or fuel pump lead too large

IAKJ : An indicator card from a cylinder of a slow speed diesel engine shows a high maximum pressure occurring earlier in the cycle than normal with a normal compression pressure. From the options given, which action is most likely to identify the cause of the problem?

A : Check if fuel injection is too early or fuel pump lead too large

IAKL : A vessel berths at two different jetties under the influence of a 1 knot beam current. At the first jetty the ship has an underkeel clearance of 5 times the draught and at the second the underkeel clearance is only 0.5 times the draught. If the current exerted a force of 50 tonnes on the ship at the first jetty, what would be the approximate force exerted at the second if the draught is the same?

A : - J.30 tonnes

IAKL : A vessel berths at two different jetties under the influence of a 1 knot beam current. At the first jetty the ship has an underkeel clearance of 5 times the draught and at the second the underkeel clearance is only 0.5 times the draught. If the current exerted a force of 50 tonnes on the ship at the first jetty, what would be the approximate force exerted at the second if the draught is the same?

A : 150 tons

IAQA : Which item among those below is included in the normal equipment of every liferaft ?

A : one first-aid outfit in a waterproof case

IARS : One technique for using good body language is to:

A : stand still when speaking



IATQ : What is a "fire wire"?

A : A wire for pulling burning ships off the pier

IAUG : To announce an important navigational –or meteorological warning via the VHF-Installation, one should use _____ :

A : safety call

IBBI : What is the minimum value of the GM under the international Load Line Rules?

A : 0,15 m.

IBFF : When synthetic ropetails are used at the ends of wire ropes, due expected faster deterioration of the synthetic ropetails, it is recommended that when ordering ropetails, their initial breaking strength specified should be:

A : 25 % more than the wire's

IBFF : When synthetic ropetails are used at the ends of wire ropes, faster deterioration would be expected. Therefore, it is recommended that when ordering ropetails, their initial breaking strength specified should be:

A : 25 % more than the wire's

IBFM : Polymerisation may be a problem with some liquefied gas cargoes such as vinyl chloride and ethylene oxide. What is the definition of polymerisation?

A : Polymerisation is when single molecules of the same compound join together to form a new compound usually with a higher viscosity.

IBFM : What is the definition of polymerisation?

A : Polymerisation is when molecules of a particular compound link together into a larger unit containing from two to thousands of molecules.

IBGM : A piston rod retaining nut needs to be tightened during maintenance on the main engine. Which of the given methods should be used to ensure it does not come loose in service?

A : Tighten it to the manufacturer's recommendations using a torque wrench.

IBHY : Which item among those below is included in the normal equipment of every lifeboat ?

A : a given number of buoyant oars provided with thole pins or crutches attached by lanyards

IBOK : How many shares are there in a registered British ship

A : 64

IBOM : Who is responsible for ensuring that ratings forming part of a watch and personnel assisting or performing cargo operations on tankers are properly qualified?

A : It is incumbent on the shipowners and the master to ensure that the requirements are complied with and documented.



IBPY : What is the meaning of this symbol ?

A : Evacuation slide

IBWA : What extra precautions should be taken by the officers and crew if some of the passengers are disabled, i.e. using wheelchair, cane, blind etc.?

A : All passengers that will require extra assistance, also in case of an emergency situation/ evacuation, must be registered in order to allocate crew to assist them if needed.

IBYD : What does the word "condiments" refer to?

A : A sauce or seasoning, such as mustard or pepper.

ICAA : What is the hydraulic hand pump usually used for?

A : The hydraulic pump is usually used for tightening the G-nuts

ICBW : Why is drying of cargo handling system necessary on refrigerated ships?

A : To avoid icing and hydrate formation in the cargo system.

ICBW : Why is drying of the cargo handling system necessary on fully refrigerated LPG carriers before loading cargo?

A : To avoid the risk of ice and hydrate formation in the cargo system.

ICHS : The purpose of the "flame scanner" on the boiler is

A : Shut off the oil flow if the flames goes out

ICHU : Define the class of emission J3E :

A : Radiotelephony - Single sideband suppressed carrier

ICIK : Which of the following detailed explanations should be mentioned in the Training Manual ?

A : The use of engines and accessories

ICLC : On a Container vessel, what claims could arise against the vessel at the discharge port for steel reinforcing rods loaded in open-top containers?

A : Cargo staining by rust, hydraulic oil or grease

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CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

ICLC : What problems could be associated with carrying steel rods in open-top containers?

A : Cargo staining by rust, hydraulic oil or grease

ICMI : On a Bulk Carrier, which of these cargoes is susceptible to liquefaction due to compression and/or vibration?

A : Iron ore concentrates

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A : Iron ore concentrates

ICMT : What is the colour and characteristic of a "towing light", as defined in the International Regulations for Preventing Collisions at Sea?

A : Yellow, fixed, seen over an arc of 135 degrees and so arranged as to display 67.5 degrees from right aft on each side of the vessel.

ICRF : The majority of conventions adopted under the auspices of IMO fall into which of the three main categories:

A : Maritime Safety, Prevention of Marine pollution, Liability and compensation

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A : Maritime Safety, Prevention of Marine pollution, Liability and compensation

ICWU : Give the meaning of the following symbol

A : Remote controlled fire pumps

ICWW : Why should a heavy lift derrick not be operated close to the horizontal?

A : Because there is danger of the derrick heel springing out of its shoe

ICYJ : Where is the "WINDLASS", in the figure?

A : Windlass is given by B on the figure

IDBY : What is normally meant by the term flammable range in relation to liquefied gas cargoes carried at sea?

A : Range between the minimum and maximum concentrations of gas in air which form a flammable mixture.

IDCO : The engine turns when starting air is supplied but does not start. What could be the probable cause to this?

A : The fuel oil filters or pipes are clogged.



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

IDDM : The thermal expansion valve responds to the

A : Amount of superheat in the vapor leaving the coil

IDEA : An evacuation-slide must be capable:

A : of being deployed by one person

IDEE : Which of these tasks are performed as part of the SSA?

A : Assess the likelihood and potential consequences of security incidents.

IDIL : On the figure 4 possible definitions of the term "BOLLARD" are given. Which one is the correct one?

A : Bollard is given by D on the figure

IDIN : What will you bring in a lifeboat if the ship is abandoned?

A : Warm clothes, blankets and lifevests.

IDMA : What would be the correct form of response to the question: What kind of assistance do you require?

A : The correct form of response would be: My vessel has a fire in the accommodation and we require fire-fighting assistance

IDOM : Most reliquefaction plants on LPG carriers use a direct cooling system. Which of the statements given in the options best describes a direct cooling cycle?

A : Cargo vapours are drawn off by a compressor, compressed, condensed than passed through an expansion valve back to the tank.

IDOM : What gives the condenser pressure in a 1 stage direct cooling plant?

A : It is the seawater temperature that gives the condenser pressure in a 1 stage direct cooling plant.

IDPI : As part of the routine duties a rating on boiler watch is requested to assist with the daily chemical treatment for the boiler and feed water systems. Where will the rating find the information relating to the hazards associated with the chemicals involved in this task?

A : The material safety data sheets supplied with the chemicals.

IDQV : Emergency instructions in appropriate languages shall be posted in passenger cabins. Which one of the given instruction has to be included according to present SOLAS regulations?

A : The method of donning life-jackets.

IDRK : What is the output shown on the "Rate of Turn" display fitted on the bridge?

A : Stuck grease was blocking the grease pipe



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

IDSQ : Select the option which best completes the following statement. "When carrying out repairs to damaged hatch gratings it is best to use"...

A : ...galvanised crosshead screws.

IDUT : On the figure 4 possible definitions of the term "STARBOARD QUARTER" are given. Which one is the correct one?

A : Starboard quarter is given by C on the figure

IDVS : How many sources of power must a fire detection and fire alarm system be provided with?

A : At least two

IDYB : What is meant by dynamic amplifying

A : Amplitude of output signal divided by amplitude of input signal

IELO : This device can detect a package of drugs inside a large delivery of ship's stores. What is it?

A : Pallet scanner

IEOE : What class of fire involves liquids?

A : Class B fire

IEOX : What transmission-mode must be used with NBDP?

A : J2B/F1B

IEPC : Why could container lashings, secured to a lashing bridge, part during heavy weather?

A : Because the hatch covers could move during heavy weather, whereas the lashing bridge will not

IEPC : Why should container lashings part when secured to a lashing bridge?

A : Due to inflexibility of the lashing bridge versus flexibility of the hatch covers

IERM : The self contained air support system on a totally enclosed lifeboat is designed to provide safe and breathable air with the engine running for a minimum of how many minutes?

A : 10 minutes

IERT : You are approaching shallow water with an Under Keel Clearance of 15%. What speed should you have when entering, and when should you slow down?

A : Reduce to slow or less in due time before entering



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

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A : - All of the suggested answers

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IEVV : How is the prime mover load normally kept to a minimum when starting up a an electric driven reciprocating type air compressor?

A : By using an unloading device to keep the compressor suction valves open until the machine is up to speed.

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A : By using an unloading device to keep the compressor suction valves open until the machine is up to speed.

IEXH : On board they want to send a telex message to the Apollogracht via Inmarsat. In the guides the following ID's are found for the Apollogracht: 24432000, 424432010, 424432020, 1300210, 36715. What ID should be chosen:

A : 424432010 or 424432020

IEXX : What is a "consignee"?

A : Any person, organization or government entitles to take delivery of a consignment.

IFAS : The ABC-rules are an important part of the First Aiders know how. What does the First Aid ABC-rules stands for?

A : Airway Breathing Circulation

IFFT : Which class of emission is used for VHF radio telephony transmissions ?

A : G3E

IFIP : According to the ISGOTT definition, what is "volatility"?

A : The tendency of a crude oil or petroleum product to produce gas.

IFJV : An inflatable lifejacket has:

A : 2 separate compartments



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

IFJW : Which deck is the "bulkhead deck"?

A : The uppermost deck to which transverse bulkheads are carried

IFLJ : What is the meaning of this symbol ?

A : Lifebuoy with light and smoke

IFLU : You are the master onboard at VLCC of 280.000 tdw, and have received a telex from the Cargo Terminal asking if your SPM-moorings are according to the OCIMF standard. What fittings must you have to comply?

A : - Two tongue-type/hinged bowstoppers with separate closed fairlea Capacity 200 tons

IFLU : You are the master onboard at VLCC of 280.000 tdw, and have received a telex from the Cargo Terminal asking if your SPM-moorings are according to the OCIMF standard. What fittings must you have to comply?

A : Two tongue-type/hinged bowstoppers with separate closed fairleads - Capacity 200 tons

IFMN : What are the contents of the book "Excerpts from the Norwegian Ship Control Legislation" ?

A : A compilation of Norwegian laws and regulations concerning the safety of ships and crew.

IFMO : Which international convention deals with pollution prevention?

A : MARPOL 73/78.

IFRI : The Inmarsat-C installation on board is switched off without logging-out first:

A : out of order

IFWN : Why is the tank washing discharge outlet located below the waterline on a chemical tanker?

A : So that a safe and legal rate of dilution is achieved in the wake as the ship proceeds along.

IFXF : The best way to identify an IED is to?

A : Recognize its components.

IGCA : Why does MARPOL require debotting of tanks prior to COW?

A : To prevent electrostatic generation

IGDA : When are power-operated watertight sliding doors (class 3 doors) compulsory for all watertight doors aboard passenger ships?

A : Where the ship has passenger spaces below the bulkhead deck



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

IGDX : You are duty officer and it is restricted visibility. On the radar you are observing a vessel foreward on your bow (7 n.m. off) and a vessel with approx the same speed and course on your starboard side, but with a CPA of 0,2 mm. You alter your course to starboard and cannot avoid the collision. What should you have done instead?

A : You should have reduced your speed to the minimum on which the vessel can be kept on course

IGES : Asthma is a distressing condition in which the muscles of the air passage go into spasm. How can the asthma attacks be triggered off ?

A : Nervous tension,allergy, or none obvious cause.

IGFO : Which type of pump is best suited to use with an oily water separator?

A : Rotary positive displacement (mono type).

IGGE : Which one of the listed requirements regarding the stowage of lifeboats and life-rafts corresponds to present SOLAS regulations?

A : Lifeboats shall be stowed attached to launching appliances.

IGGI : If the high PPM alarm is actuated on an automatic O.W.S. What should happen?

A : Overboard discharge valve should close automatically.

IGGI : If the high PPM alarm is actuated on an automatic O.W.S. What should happen?

A : Overboard discharge is stopped.

IGMR : On a Container vessel, what prevents the installation of double stacking cones?

A : Out-of-gauge containers

IGMR : What prevents the installation of double stacking cones?

A : Out-of-gauge containers

IGRD : How many groups of cargo tanks do we have on gas carriers?

A : IMO divides cargo tanks on gas carriers into 4 groups: Integral tanks, Membrane tanks, Semi-membrane tanks and independent tanks

IGWC : The (auto)ignition temperature is that temperature at which .

A : No spark or flame is required to ignite gas or vapor

IHAH : If you discover a fire which is not a very small one, what is the first action you must do?

A : activate the fire alarm



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

IHAO : How many rescue boats should be provided on passenger ships of 500 gross tons and above?

A : Two

IHBJ : If you have to carry out hot work close to a smoke detector in the engine room, what precautions should be taken?

A : Notify Master, Deck officer and Engineer in charge. The loop for this special sensor to be switched off and take normal precautions for hot work.

IHCB : What is the meaning of this symbol ?

A : Start air supply

IHCD : Fuel oil from a leaking fuel pipe has been collected in a drip tray under the boiler furnace. The oil is suddenly ignited by a backflash from the boiler burner. The boiler room is manned and the person present has the choice of various extinguishers. The fire is purely a surface fire. What would be the preferable extinguisher?

A : Powder

IHCT : You enter a High Voltage switch room and find a person apparently unconscious. Which of the following should be done?

A : Raise alarm, identify means of isolation and apply before approaching victim.

IHCU : For which purpose is a "twist lock" intended?

A : To secure/lash containers?

IHCX : VHF CH70, DISTRESS, 22702000, FIRE, N 50 20 E 006 12, 11:23, G3E SIMP TEL EOS, What is false regarding the above call ?

A : This call was sent by a coast station

IHFN : What should you do in case of any fire breaks out?

A : Alert the bridge, Rescue human life, Extinguish if possible by use of available fire fighting-fighting appliances, Secure the area/ damage control

IHHG : What is the minimum number of "Firemen's outfit" on gas tanker, above 5,000 m³, carrying flammable products?

A : 5 sets of Firemen's outfits

IHIP : A conventional reefer vessel is loading cargo of palletised fruit under controlled atmosphere (CA). Which of the given options is it essential that the deck officer confirms at completion of loading and before applying CA to the cargo?

A : All personnel are out of the cargo holds.

IHKF : When should steel cargoes be ventilated?

A : When ambient air temperatures are falling



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

IHKF : When should steel cargoes be ventilated when carried on a Bulk Carrier?

A : When ambient air temperatures are falling

IHKR : Which of these are indicators that an individual may be a drug smuggler?

A : The individual wears bulky or out of season clothing

IHSR : How much spare air should be on board for each breathing apparatus in excess to to Solas requirements ?

A : Fully charged bottles with a total free air capacity of at least 6000 liters for each breathing apparatus.

IHTT : This block diagram illustrates an elementary control system. What do we call such system in general?

A : Closed loop feed back system

IHTT : This block diagram illustrates an elementary control system. What is the common name for this type of system?

A : Closed loop feed back system

IHUR : Which component does this graphical symbol illustrate?

A : Pressure indicator, installed on panel/console

IHWV : What is the purpose of Material Safety Data Sheets?

A : To provide all personnel including emergency personnel with procedures for handling or working with that substance in a safe manner

IHXA : On the figure 4 possible definitions of the term "AHEAD" are given. Which one is the correct one?

A : Ahead is given by A on the figure

IHXT : What is the main purpose of the superheater vent valve on a high pressure steam boiler?

A : Ensure a flow of steam through the superheater when raising steam pressure after shut down

IIBD : What is the minimum age for a seafarer on a NIS ship (foreign trade)?

A : A person may serve on board as from the 17th. calendar year

IIES : How will you act if you are helmsman and the OOW (officer on watch) gives you the order: "Nothing to port"

A : Don't let the ship turn to port



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

IIGG : When is it necessary to run two pumps or more in serial?

A : If the back pressure when discharging is so high that one pump is not able to deliver any cargo.

IIHB : What IMO conventions take care of the human safety at sea?

A : It is the SOLAS conventions that take care of the human safety at sea

IIHE : When connecting the loading/discharging hoses/arms prior to cargo operations, it is quite common that a reducer is required. What is the name given to the part of the ships pipeline onto which the reducer is fitted?

A : Presentation flange.

IIHE : When connecting the loading/discharging hoses/arms prior to cargo operations, it is quite common that a reducer is required. What is the name given to the part of the ships pipeline onto which the reducer is fitted?

A : Presentation flange.

IIHE : When connecting the loading/discharging hoses/arms prior to cargo operations on an oil tanker, it is quite common that a reducer is required. What is the name given to the part of the ships pipeline onto which the reducer is fitted?

A : Presentation flange.

IIHH : A vehicle of length 4.85m; width 1.55m; weight 3200 kg. is to be loaded with a door-to-door clearance of 12cm and bumper-to-bumper clearance of 30cm. What would be its uniform load density?

A : 0.372 mt /sq. m.

IIHH : On a RoRo vessel, if the vessel is loaded by stevedores, who is responsible for the lashing of the cargo

A : The vessel is responsible for cargo as soon as it crosses the ramp including its securing

IIOS : What rules and regulations are regulating the watch keeping routines in the engine room?

A : Both STCW and Class rules

IIPJ : Referring to the SOLAS convention, how often should a crew member on a cargo ship participate in one abandon ship drill and one fire drill?

A : Monthly

IIQH : You are carrying out a search in a smoke filled compartment wearing BA. At what stage should you start to make your way out of the compartment?

A : Regularly check your pressure gauge and note how much air you used to reach your work area. Start to return when you have this amount left plus a reasonable reserve.

IITK : In the figure is shown the direction of possible mooring lines from the stern of a vessel, when moored port side alongside a jetty. Which letter shows the direction which would be used by a "STERN LINE"?

A : Stern line is given by A on the figure



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

IIXS : Passenger ships have a normal requirement of 1 lifejacket per person + 10% for children. In addition to this, how many lifejackets have to be stowed in conspicuous places on deck or at the muster stations?

A : 5% extra

IYD : What is the maximum stowage height for containers on deck of a General Cargo Vessel, if the vessel is not specifically designed for the carriage of containers?

A : The maximum height is one container

IYU : A distress call has been sent accidentally on your MF DSC equipment. Which of the following is correct for cancelling the false distress alert?

A : 1. Switch off the transmitter - 2. Switch equipment on - 3. Make broadcast on 2182 kHz "Mayday all stations..." and cancel the false distress alert.

IJEM : For a large increase in the specific gravity of the oil, the gravity disc hole diameter should be:

A : Reduced.

IJEO : The boiler have been shut down completely for inspection and repair. You have finished work and are going to start firing the boiler. What is the correct procedure for heating a boiler from cold?

A : Start with intermittent firing, using small firing periods and long intervals gradually building up to longer firing periods and shorter intervals.

IJIP : What is the main fire fighting medium for tank deck on gas and chemical carriers?

A : Chemical powder is the main medium for tank deck fire fighting on gas and chemical carriers

IJLE : You are carrying a bulk cargo of Phosphoric Acid. Which components of the cargo pumps may be damaged as a result of discharging this particular cargo and why?

A : The cargo seals may be damaged from the abrasive effect of any sediment.

IJNO : What mode must be used on the MF/HF transmission when making a radiotelephone call:

A : J3E

IJOB : What are the requirements for the number of portable gas measurement instrument(s) on tankers?

A : At least 1 portable instrument for measuring flammable vapours.

IJOI : Where will the ships officers find necessary information regarding the ships fire protection arrangement, fire-detection equipment and fire extinguishing appliances? (SOLAS II-2/20.1)

A : In permanently exhibited fire control plans

IJRT : Which item among those below is included in the normal equipment of every liferaft ?

A : anti-seasickness medicine and one seasickness bag for each person



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

IJRV : On the figure there are four (4) possible definitions of the term "AIR DRAUGHT" given. Which one is the correct one?

A : Height is given by D on the figure

IJST : Which item among those below is included in the normal equipment of every liferaft ?

A : one knife of the non-folding type having a buoyant handle and a lanyard

IJUB : Where is there a likelihood of inadequate initial design on a bulk carrier?

A : Around the hatch corners

IJVB : A VHF transmission range is mainly restricted by:

A : the curvature of the surface of the earth

IJWC : A ro-ro unit weighing 2mt is to be loaded in the fore and aft direction and lashed by belts of SWL 0.6mt. How many lashing belts should be used to secure the unit?

A : 4

IJWC : On a RoRo vessel, a ro-ro unit weighing 2mt is to be loaded in the fore and aft direction and lashed by belts of SWL 0.6mt. How many lashing belts should be used to secure the unit?

A : 4 on each side

IJWO : When data are to be transferred over a telephone line, we often utilize modem at each end. Which of the following adapter cards (parts) will you use for interfacing a modem to a computer?

A : Serial adapter

IJWV : What manoeuvre should be carried out in case of a fire onboard a ship?

A : Reduce speed and, if possible, keep the fire zone to the leeward of the ship

IKAB : A vessel where the engine personnel are in charge of the whole technical installation is due for a voyage to a cold climate area. What special precautions should be implemented with regard to fire line/pumps and use of same?

A : All the mentioned alternatives

IKAB : A vessel where the engine personnel is in charge of the whole technical installation is due for a voyage to a cold climate area. What special precautions should be implemented with regard to fire line/pumps and use of same?

A : All the mentioned alternatives

IKAS : Gassing up is one of the operations that may be required before loading a cargo of LPG. What is the main reason for gassing up cargo tanks on refrigerated LPG carriers before loading the cargo?

A : To remove the inert gas, which may contain incondensable elements, from cargo tanks.



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

IKAS : What is the reason for gassing up cargo tanks before loading?

A : Removal of inert gas from cargo tanks.

IKBT : On a RoRo vessel, what is of major concern when a shallow draught ro-ro vessel is in river transit in high winds ?

A : Air draught

IKBT : What is of major concern when a shallow draught ro-ro vessel is in river transit?

A : Air draught

IKCT : The free volume of carbon dioxide (CO₂) of a fixed gas fire-extinguishing system shall be calculated at

A : 0,56 m³/kg

IKGN : With reference to the installation of pressure gauges for steam systems. Complete the following statement from the options given. To protect a bourdon tube type pressure gauge which is to be fitted to a steam line it should

A : ..be fitted with a siphon loop between it and the steam pipe.

IKIN : Instructions for "Preparation for welding or hot work in cargo tanks" is laid down by the Norwegian Maritime Directorate. Which of the following requirements regarding welding or hot work corresponds to these instructions?

A : Tanks adjacent to the tank where work is to be carried out shall be cleaned and free of gas.

IKIY : One of the crossheads on a large, six cylinder, slow speed diesel engine has been severely damaged due to bearing failure. The connecting rod for the cylinder concerned is to be removed from the engine and the piston and damaged crosshead suspended in the engine so that it can be run on 5 cylinders. Which of the methods given in the options should be used to suspend the piston and crosshead?

A : Raise the piston sufficiently high to allow the crosshead support pins/chains to be fitted and rest the crosshead on them (with piston attached and positioned above the scavenge ports)

IKJC : A ro-ro unit weighing 2mt is to be loaded athwartships and lashed by belts of SWL 0.6mt. How many lashing belts should be used to secure the unit?

A : A minimum of 6

IKJC : A standard Ro-Ro unit weighing 2mt is to be loaded fore and aft and lashed by belts of SWL 0.6mt. Using the general rule How many lashing belts should be used to secure the unit?

A : 4 on each side

IKKD : Why is the inlet to the slop tank often directed towards the bulkhead (see the illustration) ?

A : To avoid build-up of static electricity, which may cause explosion

IKLV : In the situation illustrated, what should be the power distribution of the tugs to maintain the ship sideways motion with only minor changes in the ships heading?

A : Full power on the aft tug, reduce on the forward while checking the gyro



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

IKLV : In the situation illustrated, what should be the power distribution of the tugs to maintain the ship sideways motion with only minor changes in the ships heading?

A : - Considerably more power on the aft tug than the forward tug, while monitoring the ship's gyro heading__

IKLX : The blowers air delivery is not sufficient. What is the cause?

A : Clogged air inlet filter.

IKNO : A person wearing a thermal protective aid shall be able:

A : to wear a lifejacket inside

IKNY : A General Cargo Vessel is loading and rain starts to fall; what action should be taken by the OOW ?

A : In all cases of rain cargo operations should stop unless Master authorises operations to continue

IKSJ : All closing arrangements, stowing of cargo etc. are subject to regulations by the Norwegian Maritime Directorate (NMD). Which of the following requirements regarding hatches, hatch covers etc. corresponds to present regulations? (NSCL 4/10.1.3 - 10.1.4)

A : Hatch openings in weather deck to be closed and battened down before loading of deck cargo.

IKTI : Is the crew entitled to compensation if the master has to reduce the diet during a voyage?

A : Yes

ILAY : On a container vessel what effects would exposure to anhydrous ammonia in moderate concentrations have?

A : Choking and possible loss of eyesight

ILDJ : How often shall the oxygen analyser be calibrated?

A : Prior to every plant start-up, following an 8 hour stop

ILDJ : How often shall the oxygen analyser be calibrated?

A : Prior to every plant start-up following a shut down of 8 hours or more.

ILED : Water Jel is a unique product regarding protection and first aid of burns. Water Jel is delivered in different sizes. Biggest is a carpet with the size 182cm x 152 cm. What is the highest temperature the Water Jel carpet is resistant against?

A : 1530 C

ILEH : Instructions for "Preparation for welding or hot work in cargo tanks" is laid down by the Norwegian Maritime Directorate. During ongoing inspection on work in cargo tanks, the gas concentration shall be checked:

A : Every second hour.



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

ILFC : If fuel or diesel oil is leaking from our HP fuel oil pumps, and penetrate into the lube oil system of the engine, the result may be:

A : It will destroy the properties of the lube oil and lead to serious damage in our engine.

ILFU : What name is given to the short, initial wash given to tanks that have just contained certain particularly hazardous cargoes before the ship leaves the unloading port and where the washings are landed to shore or to a slop barge?

A : A MARPOL pre-wash.

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ILMM : What signal, if any, is specified in SOLAS as the "Abandon ship" signal ?

A : the "Abandon ship" signal is not specified, only the general emergency alarm signal is

ILMM : What signal, if any, is specified in SOLAS as the "Abandon ship" signal ?

A : the "Abandon ship" signal is not specified, only the general emergency alarm signal is stated

ILOD : All closing arrangements, stowing of cargo etc. are subject to regulations by the Norwegian Maritime Directorate (NMD). Which of the following requirements regarding carriage of deck cargo corresponds to present regulations? (NSCL 4/10.1.8 - 10.1.10)

A : The light from lanterns and signals must not be obstructed.

ILOI : Which of the following could cause a "flareback"

A : trying to ignite burner from hot brickwork

ILPP : What kind of Crude Oils are required by MARPOL to be specifically listed in a tankers Crude Oil Washing manual as unsuitable for cleaning by that method?

A : Those with high pour point or viscosity.

ILRP : A maritime inquiry abroad shall be heard by:

A : The Norwegian Consular Court at the nearest competent Norwegian Foreign Service Station.

ILTE : Which publication, other than SOLAS, contains information regarding the personal safety equipment that must be carried onboard liquefied gas carriers?

A : In SOLAS chapter II-2, rule 17 and in the IGC code

ILTH : Hoses subject to tank pressure or the discharge pressure of pumps should be designed for a bursting of not less than :

A : 5 times the maximum pressure the hose will be subjected during cargo transfer.



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

IMAO : You are on a power driven vessel underway in open water. This vessel is sighted directly ahead. The distance is closing slowly. What action will you take under the International Collision Regulations and why?

A : I will keep out of her way. I am the overtaking vessel and am obliged to keep clear under rule 13.

IMAO : You are on a power-driven vessel underway in open water. This vessel is sighted directly ahead. The distance is closing slowly. What action will you take under the International Collision Regulations and why?

A : I will keep out of her way. I am the overtaking vessel and am obliged to keep clear under rule 13.

IMBR : Who has police authority in matters which are connected with the seaworthiness of ships?

A : A Norwegian Maritime Investigator

IMDI : Is there any requirements regarding double bottom for large passenger ships?

A : Yes, in ship of 76 m in length and upwards, a double bottom shall be fitted amidships, and shall extend to the fore and after peak bulkheads, or as near thereto as practicable.

IMFN : Which of the following type of crude oil requires special consideration in terms of carriage and cleaning?

A : Paraffinic Crude.

IMGM : Which of the following is the correct minimum carriage requirement for a ship of more than 300 gross tons and operating in area A4:

A : 1 VHF RT + DSC+ DSC watch receiver - 1 or 2 SART - 1 NAVTEX and/or 1 EGC receiver and/or 1 HF NBDP watch receiver - 2 or 3 VHF portable - 1 EPIRB - 1 MF RT + DSC+ DSC watch receiver - 1 HF RT + DSC+ DSC watch receiver

IMHW : What is the most likely cause of black smoke at the boiler exhaust during normal operation of a steam boiler?

A : Insufficient combustion air.

IMJB : The PH concept does not correspond with cleaning efficiency, but depends entirely on what?

A : A suitable composition of water and detergent.

IMJD : For intra-ship radio traffic with a porto-phone the following channels have been appointed:

A : 15 and 17

IMNG : According to the regulations in force, one of the following stripping devices is a demand on an oil tanker. Which one?

A : Stripping pump.

IMRO : What would it imply if at the discharge port cargo was found contaminated by a previous cargo?

A : That the vessel was unseaworthy when the voyage commenced



IMXO : In the human body, breathing is controlled by

A : The respiratory centre in the brain

INEX : Give the meaning of this symbol:

A : lifebuoy with line

INFN : Which of the following international regulations is normally used when handling dangerous goods?

A : IMDG code

INHN : In which order should changing a section of the hatch cover seal be carried out?

A : Moulded sections followed by straight sections cut to the length required + 5%

INHY : What is the most important physical property of a liquefied gas?

A : Its saturated vapour pressure/temperature relationship.

INHY : Which of the given options can be considered to be the most important physical property of a liquefied gas?

A : Its saturated vapour pressure/temperature relationship.

INHY : With respect to carriage and transport, which of the given options can be considered to be the most important physical property of LNG?

A : Its saturated vapour pressure/temperature relationship.

INKV : You want to make a telephone call to a shore subscriber. Which sequence will you key into your INMARSAT A terminal?

A : CES two digits code # 00 Country code Area code Subscriber code #

INOL : What are the two parts of the magnetic compass error?

A : Variation and Deviation

INRG : How would you ventilate your cargo holds when sailing from cold climate to hot climate?

A : No ventilation should be done?

INRU : What term is applied to the compensation payment by the charterer that is due when a vessel is unable to load / discharge her cargo within the allowed and contracted time?

A : Demurrage.



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

INSB : You are serving on a 5 year old chemical tanker. You are called upon to order a portable blower for ventilation of DB tanks, cofferdams & pipe tunnels prior entry & during inspection. You would order a blower of capacity:

A : Able to effect a complete change of air of the space being ventilated 16 times an hour?

INUQ : A deepwell pump is a type of :

A : Centrifugal pump

INWC : Anyone who violates the provisions of Norwegian law or the provisions of regulations laid down by virtue of Norwegian law, relating to contract of engagements and account book, to notification to, appearance before, or to the taking of evidence, shall be liable to????

A : Fines or imprisonment for a term not exceeding three months.

INXB : A decision support system for emergency management shall be provided on the navigation bridge. What type of emergency situations shall as a minimum be identified in the emergency plans?

A : Fire, Damage to ship, Pollution, Unlawful acts threatening the safety of the ship and the security of its passenger and crew, Personnel accidents, Cargo-related accidents, Emergency assistance

IOAU : What kind of provisions are in Part 0 of the book "Excerpts from the Norwegian Maritime Code of 24 June, 1994, No. 39"?

A : Acts.

IOAU : What kind of provisions are in Part 0 of the book "Excerpts from the Norwegian Passenger and Cargo Ship Legislation, etc"?

A : Acts.

IOAU : What kind of provisions are in Part 0 of the book "Excerpts from the Norwegian Ship Control Legislation"?

A : Acts.

IOAV : How frequently should the PA-system (Public Address) be tested?

A : Every week

IOBI : If one wishes to make a collect call from a vessel to a shore subscriber, one must:

A : request for a collect call

IOEU : What percentage of the ship's stores are required to be inspected at Security Level 3?

A : 100% of the ship's stores are required to be inspected at Security Level 3.

IOFO : How did the 33rd amendment to the IMDG Code affect the carriage of ammonium nitrate?

A : Ammonium nitrate in containers were required to be stowed on deck



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

IOFO : On a container vessel, when would a bulk liquid cargo carried in a flexitank container be considered dangerous?

A : When the associated material safety data sheet shows a constituent(s) listed in the IMDG Code

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A : When the associated material safety data sheet shows a constituent(s) listed in the IMDG Code

IONL : On a RoRo vessel, what should a duty crew member do immediately upon observing funnel soot emissions?

A : Inform the duty officer

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A : Inform the duty officer

IOOY : The fire control draft on board is called the safety plan and shall be posted onboard. In port, a copy of this plan shall in addition be available from somewhere else. Where must this copy be available?

A : At the gangway.

IOPW : The Muster List shall show the duties assigned to members of the crew. Which of the following duties shall be included according to present regulations?

A : Seeing that the passengers are suitable clad.

IOQF : Do you think an increase in flow rate through the separator would improve the separation of oil and water?

A : No

IOQH : Would the purification efficiency be improved by an increase in throughput?

A : Yes.

IOUV : Against what do explosives need protection?

A : Lightning strikes

IOUV : On a Container vessel, against what do explosives need protection?

A : Lightning strikes

IOVN : Fully pressurised ships are fitted with type "C" tanks. What is the normal design pressure?

A : Design pressure of about 18 barg.



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

IPEP : Which of the following detectors is commonly used for sensing if a watertight steel door is closed or open?

A : Proximity switch

IPEP : Which of the following detectors will you use for detecting if a watertight steel door is closed or open?

A : Proximity switch

IPEP : Which of the following detectors will you use for sensing if a watertight steel door is closed or open?

A : Proximity switch

IPFK : What pressure shall a cargo hose be marked with?

A : Maximum allowable working pressure

IPGK : What class of fire is a smoldering fire of wood, textiles, paper and other carbonaceous materials?

A : Class A

IPJW : In an extreme case, in addition to having your winch brakes as tight as can be, you can increase the brake holding capacity of the winch drum by putting it in gear and setting the power to the heave position. However this may cause:

A : All the listed alternatives

IPLA : To achieve a good stow with palletised refrigerated cargo it is preferable to have long uninterrupted faces for the stow. Any pillars, access ladders or other obstructions in the cargo space can make this difficult. From the options given, select the most appropriate way of dealing with an access ladder which is obstructing the pallets to achieve a satisfactory stow.

A : Remove the access ladder and place it on top of the stowed pallets.

IPLJ : An OBO or O/O carrier, due to the movement of liquid in a cargo hold during rough weather, the possibility of liquid entering the inert gas piping is great. To avoid this U-bends are sometimes fitted on the line emerging from the hatch coaming. These bends generally have a drain cock at the bottom. These cocks should be:

A : Opened after rough weather or before loading/discharging or transferring cargo to check for liquid accumulation and contents drained into a drip pan.

IPPP : Which item among those below is included in the normal equipment of every liferaft ?

A : watertight receptacles containing 1.5l of fresh water for each person (may be partially replaced by a desalting apparatus)

IPUK : What is the main fixed fire-fighting system on a car deck?

A : Water sprinkling

IPVS : How would you report a person lost overboard?

A : "Vessel "name" has lost a person overboard in "position....."



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

IQBD : In a PID controller we have possibility to change the setting of the Proportional band (P), the Reset time (I) and the Rate time (D). Please indicate which curve shows the typical response to change in input, if the setting of the reset time is too fast.

A : Figure 3.

IQBN : The ABC method stands for Air, Breathing and Circulation. If a person has stopped breathing, how many respirations and heart compressions are to be given if you are the rescuer?

A : 2 respirations and 30 compressions.

IQBN : When is it safe for ships personnel to enter the cargo tank of an LNG carrier to carry out routine maintenance and inspection?

A : Only after gas freeing and an atmosphere test shows 21% oxygen content.

IQEQ : You wish to use the slop tank for the source of driving fluid for COW. Which of the following should be done before starting:

A : Discharge the slop tank completely and refill it from another tank from which the bottom 1m ullage has already been discharged

IQGE : What measures should be taken in order to avoid explosive gases to form on top of coal cargoes?

A : Ventilate the holds as well as possible

IQGK : In many countries some cleaning products are labelled with warning signs. Why?

A : The user should be warned that the product contains fluids that may irritate and itch skin.

IQHB : On a Container vessel, what weakens a turnbuckle?

A : Pitting

IQHB : What weakens a turnbuckle?

A : Pitting

IQHC : What does "periodic cleaning" mean?

A : Washing and polishing floors, chemical cleaning of furniture and carpets in cabin and other common rooms.

IQHE : You are sailing in shallow water, with 15% Under Keel Clearance. Turning the ship around, what space do you need compared to deep water?

A : Need more space than normal

IQHE : You are sailing in shallow water with a 15% Under Keel Clearance. Turning the ship around, what space do you need compared to deep water?

A : Need more space than normal



IQHS : As ships get older which hatch covers need special attention when battening down for sea passage?

A : The foremost hatch covers

IQLG : During a telex-connection with a subscriber it is:

A : recommended at the beginning and at the end of the message-transport to exchanges 'answer back' s'

IQMB : The engine does not turn when starting air is supplied because of:

A : Released blocking function in remote starting system.

IQOS : In radio-traffic with a coast-station, a "personal call" means that one wishes:

A : to have a telephone conversation with a person whose name is known

IQPN : Electric arc welding is to be carried out in the machinery spaces other than the workshop. Which of the alternatives below would be the correct procedure for the connection of the "return" cable to the welding set?

A : Any of the listed alternatives.

IQPN : Electric arc welding is to be carried out in the machinery spaces other than the workshop. Which of the alternatives below would be the preferred method for the connection of the "return" cable to the welding set?

A : Any of the listed alternatives.

IQTT : How do the human body absorb toxicants?

A : The human body absorb toxicants through respiration, skin and the aliment channel

IQXU : How often must a fire drill be carried out on a British ship?

A : Monthly

IRAJ : In a fresh water tank we are using a pressure transmitter with a range of 0-0.5 bar/4-20mA for level measurement. The transmitter is for different reasons installed 30 centimeters from the bottom of the tank, and the tank is 5 meters high. What will the output from the transmitter be when the tank is empty?

A : 4 mA.

IRAJ : In a fresh water tank we are using a pressure transmitter with a range of 0-0.5 bar/4-20mA for level measurement. The transmitter is installed 30 centimeters from the bottom of the tank, and the tank is 5 meters high. What will the output from the transmitter be when the tank is empty?

A : 4 mA.

IRFS : The pumping and piping arrangement for a chemical tanker constructed after 1st January 2007 and carrying substances of categories "X", "Y" or "Z" must ensure that the maximum quantity of residues retained in a cargo tank and its associated piping must not exceed which of the following amounts?

A : 75 litres.



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

IRHV : In case a message which is destined for a telex-subscriber ashore is sent via an Inmarsat-C installation on board:

A : there is never a direct connection with the shore-subscriber

IRIT : On board they want to establish telex-communication via the Inmarsat-set with the ship Appologracht. In the guides the following ID's are found for the Appologracht: 244320000, 424432010, 424432020, 1300210, 36715. What ID should be chosen:

A : 1300210

IROK : Before Raising or lowering movable car decks on a RoRo vessel, which of the following precautions should be taken

A : All of the following answers

IROW : What is a deck lift vehicle?

A : A vehicle used to raise or lower portable decks

IRVA : A lifebuoy must have an outer diameter of:

A : not more than 800 mm

IRVV : What is the main criterion generally taken into account to classify portable extinguishers:

A : The extinguishing agent

ISAX : Apart from the shipboard emergency plan where will you find more detailed procedures for fighting container fires?

A : In the EmS Guide of the IMDG Code

ISAX : On board a container vessel, which of the following is not likely to be displayed by the loading computer?

A : Stowage positions of high-cube containers

ISDF : What is characteristic of Cotton Seed Cake?

A : It is susceptible to tainting if stowed near odorous goods

ISIJ : If a cargo has a literweight of 1.5 kg/l at 15° and a correction factor of 0,001, what is the literweight at 20° C ?

A : 1.495 kg/l

ISMI : How should additional lashings be applied to vehicles if they do not have sufficient lashing points?

A : Pass lashings over the vehicles' axles



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

ISMI : On a RoRo vessel, how should additional lashings be applied to vehicles if they do not have sufficient lashing points?

A : As detailed in the instructions provided by the manufacturer or shipper

ISPY : What principle of measurement are viscosity controllers usually based upon?

A : Measurement of differential pressure

ISPY : What principle of measurement is the viscosity controller based on?

A : Measurement of differential pressure

ISPY : What principle of measurement is the viscosity controller usually based upon?

A : Measurement of differential pressure

ISRV : Which diagram is the symbol for a THYRISTOR?

A : Figure 2.

ISSQ : For which type of vessel is sinkage most pronounced?

A : High block coefficient vessel

ISUD : Which of these series of sizes corresponds to the international standard for nozzles

A : 12 mm, 16 mm and 19 mm

ISVS : In MARPOL 73/78, the term "Special Areas" is mentioned in connection with discharges from oil tankers. What do you understand by this term?

A : Special area is certain areas like Red Sea, Black Sea, Baltic Sea, Mediterranean, Gulf area, Antarctic area.

ISVY : In accommodation the automatic sprinklers shall come into operation within the temperature range: (SOLAS II-2/12.2.4)

A : 68 - 79°C

ISXN : An area within the radiotelephone coverage of at least one VHF coast station in which continuous DSC alerting is available is called:

A : A1

ITAY : What surveys do not have a validity of 5 years?

A : Safety Radio



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

ITCP : What do we mean to purge a cargo tank?

A : To purge a tank means that we change atmosphere in the tank e.g. change cargo vapour with inert gas.

ITDI : Gas tankers are fitted with fixed water spray system for fire protection purposes. What is the minimum required flow rate of water per minute for horizontal and vertical surfaces?

A : 10 litre/m² per minute for horizontal surfaces and 4 litre/m² per minute for vertical surfaces.

ITDI : Gas tankers are often fitted with fixed water spray system for fire protection purposes for deck areas, deck tanks, deck manifolds and pipelines. What is the minimum required flow rate of water per minute for horizontal and vertical surfaces to ensure adequate, uniform coverage of these areas?

A : 10 litre/m² per minute for horizontal surfaces and 4 litre/m² per minute for vertical surfaces.

ITDI : LNG tankers are often fitted with fixed water spray system for fire protection purposes for deck areas, deck tanks, deck manifolds and pipelines. What is the minimum required flow rate of water per minute for horizontal and vertical surfaces to ensure adequate, uniform coverage of these areas?

A : 10 litre/m² per minute for horizontal surfaces and 4 litre/m² per minute for vertical surfaces.

ITEE : For protection of crew who might come into contact with chemicals in the course of their work, the ship should have suitable equipment such as chemical resistant aprons, gloves, footwear, coveralls, face and eye shields etc. After the days work these should be stowed:

A : In suitable lockers easily accessible, yet segregated from the living spaces themselves?

ITHN : When cross-flooding arrangements to correct unsymmetrical flooding and excessive heel angles in damaged condition are installed in passenger ships, what is the maximum angle of heel after flooding but before equalization?

A : 15 degrees

ITKE : Give the meaning of the following symbol:

A : evacuation slide

ITNO : What code is normally used when handling dangerous goods?

A : IMDG - CODE

ITOJ : Zener barriers are sometimes used to supply power to electronic equipment in hazardous areas. Which statement is correct with regards to power supply for equipment supplied through Zener-barriers?

A : The 0-voltage must always be grounded.

ITOL : Why is temperature control accuracy so important when cleaning lub oil in a conventional separator

A : Small changes in temperature can cause large movement of the interface

ITPC : What is the signal actuated by a detection system?

A : A visual and audible alarm signal at the control panel



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

ITPC : What is the signal actuated by a fire detection system?

A : A visual and audible alarm signal at the control panel

ITQM : Which of the following documents gives the maximum point loading in cargo holds and on decks of a General Cargo Vessel?

A : Ships Capacity plan

ITRO : What is the meaning of this symbol ?

A : Start water-spray

ITRV : When working in areas which requires the use of a ladder, should you:

A : Secure the ladder top and bottom and have a shipmate standing by while you are working on the ladder.

ITRV : When working in areas which requires the use of a ladder, should you:

A : All of the listed alternatives.

ITUM : What do the letters VOC stand for when discussing a type of oil cargo?

A : Volatile Organic Compound.

ITUM : What do the letters "VOC" stand for when discussing types of oil cargo?

A : Volatile Organic Compound.

ITWS : Give the meaning of the following symbol:

A : liferaft

IUBR : Prior to entering a tank, the atmosphere is physically measured from deck giving reading of atmosphere to be less than 1 per cent LFL and 21 per cent oxygen. Is the tank acceptable for hot work?

A : No. More readings should be taken and sediments, sludge and residue should be removed at least 10 m from working site.

IUBW : A chemical tanker will carry cargoes of ethanolamine, methyl acrylate, and glycerine. Which statement is true?

A : Glycerine is compatible with both of the other cargoes.

IUCL : What material should boiler suits be made of?

A : Cotton



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

IUDN : Apart from longitudinal, transverse and vertical accelerations what else must be taken into account when calculating the external forces acting on a cargo unit?

A : Longitudinal and transverse forces by wind pressure

IUDN : On a RoRo vessel, in addition to longitudinal, transverse and vertical accelerations what else must be taken into account when calculating the external forces acting on a cargo unit?

A : Longitudinal and transverse forces by wind pressure

IUED : On a UK ship where might you get a port state control inspection

A : In any port in a country which is a member of one of the port state control regimes currently in operation, other than the UK

IUFP : You are to load a number of chemical cargoes in Rotterdam in December, for eventual discharge in Australia, after the ship has called at Singapore and Malaysia. None of the cargoes on board at any stage of the voyage require heating. None of the tanks to be discharged in Singapore and Malaysia will require hot washing after discharge. What will need to be considered when determining the filling limits of the tanks containing the Australian cargoes?

A : The maximum anticipated temperature that the cargoes will reach bearing in mind ambient air and sea temperatures to be encountered on passage, so that any expansion does not result in overflow

IUHP : What does this signal indicate?

A : I require assistance

IUIH : Which one of the listed requirements regarding VHF radiotelephone installations do not correspond to present regulations?

A : Cargo ships of less than 500 tons gross shall have the batteries located in the upper part of the ship

IUJJ : On which frequencies do most satellite EPIRBs operate?

A : 121.5/406MHz

IULM : During inspection of a medium speed diesel engine piston of the composite type it is found that the steel crown is loose at its connection to the alloy skirt. Further inspection reveals damage to the surfaces and evidence of metal particles where the two parts are connected. Select, from the options given, the likely cause of this type of damage.

A : Fretting due to loss of compression at the joint between the components.

IUMG : Select the option which correctly completes the following statement. Prior to allowing work to proceed in an onboard space testing of the atmosphere should be carried out...

A : ...for any space with limited access or non-continuous ventilation or is suspected of having a hazardous atmosphere.

IURP : How can water hammer be avoided when operating the valves and pumps in a cooling water system?

A : Operate valves gradually

IUSO : The bowl in a fuel oil separator fails to open for sludge discharge. What is the reason to this?

A : Strainer in operating water high-pressure side is clogged.



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

IUTX : An EPIRB has been activated accidentally. Which of the following is correct for cancelling the false distress alert?

A : Call the nearest coast station and inform it that a false distress alert has been transmitted

IUWK : If one requires medical advice by means of an Inmarsat-C terminal one should use the following address:

A : 32

IUYC : How many hours before departure should the ships steering gear be checked and tested?

A : Within 12 hours

IVAV : Which of the following functions are chemical treatments for cooling water system designed to do?

A : Minimize corrosion, prevent deposits and scaling, and control of biological growths.

IVCI : Which one of the listed requirements regarding the launching and recovery arrangements for rescue boats do not correspond to present regulations?
(S O L A S
I I I / 1 6)

A : The release mechanism shall be of an automatic type approved by the Administration

IVCJ : If you are going aloft in a bosuns chair what kind of hook would you use to hook the chair to the rope?

A : An approved hook with a locking device

IVDF : What percentage of anti-freeze fluid (ethylene glycol) is added to an LPG compressor cooling-water system to give the best protection against ice formation in the cooling system?

A : 60 %

IVDF : What percentage of anti-freeze fluid is added to the L.P.G. compressor cooling-water system?

A : 60 %

IVGQ : On the figure there are four (4) possible directions, shown by the arrowed lines, which could be the correct direction associated with the term "HEAD LINE". Which one is the correct one?

A : Head line is given by B on the figure

IVGY : Which of the suggested navigational systems is a "Hyperbolic" navigational system and has hyperbolae as position lines?

A : Loran C

IVHF : When an air compressor is going to be started it is important that the compressor is started with the "blow off" valves open. Why?

A : To ensure that we do not have any water assembly in the cylinders when the compressor start.



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

IVHI : Which among the following list is particularly required for a totally enclosed lifeboat ?

A : handrails for persons moving about the exterior of the lifeboat

IVIF : Please name correctly the most common rudders as shown below? UNBALANCED, BALANCED, SEMI-BALANCED, UNDERHUNG BALANCED

A : NO. 1,2,3 and 4

IVKX : Where should be located the VHF survival craft transceivers during normal operation of the ship ?

A : On the bridge

IVMO : Command of radio-traffic between vessels and coast-stations lies:

A : always with the coast-station

IVNJ : One wishes to have a telephone conversation with a person whose name is known. This is what is called:

A : a personal call

IVPP : What is the purpose of the O.D.M.E. (Oil Discharge Monitoring Equipment) printer ?

A : To prove that oil has been pumped overboard according to regulations

IVRK : Which of following items shall be included in an abandon ship drill?

A : a mock search and rescue of passengers trapped in their staterooms

IVSE : Which of the following detailed explanations should be mentioned in the Training Manual ?

A : How to don lifejackets, immersion suits and anti-exposure suits, as appropriate

IVUQ : Some vessels have a central hydraulic system consisting of a number of hydraulic power packs for driving cargo pumps, deck machinery, ships cranes, etc. Which parameter is normally used to automatically bring the power packs on and off line to match operational demand?

A : Percentage of available flow.

IVWK : What is the approximate pressure of the CO₂ stored in a cylinder at an ambient temperature of +20°C?

A : 60 bar

IVXI : In a circuit diagram of a simple hydraulic system, what does the following symbol indicate?

A : Directional control valve.



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

IWDX : Which one of the given requirements regarding manning and supervision of survival craft do not correspond to the present regulations? (SOLAS III/10)

A : Every motorized survival craft shall have a certificated engineer assigned

IWES : Which of the alternative methods of using a tug when escorting a ship through narrow waters would be considered the most effective in the event of losing steering power?

A : The tug's bow against my stern, made fast with lines. By moving the tug to either side of my stern, this will help to steer the ship (figure 4).

IWES : Which of the alternative methods of using a tug when escorting a ship through narrow waters would be considered the most effective in the event of losing steering power?

A : - The tug made fast on a line through the centre lead astern, (figure 4).

IWES : Which of the alternative methods of using a tug when escorting your ship through narrow waters do you think is the most effective if you lose steering power?

A : The tug's bow against my stern, made fast with lines. By moving the tug to either side of my stern, this will help to steer the ship (figure 4).

IWES : Which of the alternative methods of using a tug when escorting your ship through narrow waters do you think is the most effective if you lose steering power?

A : - The tug made fast on a line through the centre lead astern, (figure 4).

IWES : Which of the alternative methods of using a tug when escorting your ship through narrow waters do you think is the most effective in case you lose steering power?

A : The tug's bow against my stern, made fast with lines. By moving the tug to either side of my stern, this will help to steer the ship (figure 4).

IWES : Which of the alternative methods of using a tug when escorting your ship through narrow waters do you think is the most effective in case you lose steering power?

A : - The tug made fast on a line through the centre lead astern, (figure 4).

IWGN : What levels of correction notice can be enforced by MCA surveyors?

A : Safety equipment to be made good in a given time period

IWHE : What kind of information must be posted in all passenger cabins?

A : The route to musterstation, how to put on lifejacket and different emergency signals used onboard the ship.

IWIF : How much water per person is provided in a lifeboat not equipped with a desalting apparatus?

A : 3 litre

IWMY : How would you arrive at the 'Stowage Factor' of a cargo commodity?

A : By dividing the volume of the space by the tonnage of the commodity



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

IWMY : How would you arrive at the 'Stowage Factor' of a cargo commodity?

A : Volume of the space /tonnage of the commodity

IWNB : Feed check valves for main and auxilliary purposes are normally of the double shut off type, as shown in the diagram. What is the main function of the non-return valve?

A : To prevent the steam and water in the boiler from discharging out by the feed line, if a feed line fracture or a joint in the line blows.

IWOD : Too low oil flow in the fuel oil purifier oil outlet line is caused by:

A : Broken water seal.

IWOG : On a Container vessel, what problem is associated with the use of twistlocks?

A : Left hand and right hand types exist, causing uncertainty whether a fitting is locked or open

IWQN : What is the meaning of the term purification?

A : Separation of two insoluble liquids with different densities, and at the same time removing of solids.

IWTG : A cargo space is being prepared to load a refrigerated cargo. An inspection of the space has revealed some dark areas of mould on the bulkheads. Which of the given options is the best action to take in such circumstances?

A : The mould should be removed by scrubbing the area with clean water containing the correct concentration of an approved fungicide.

IWTS : The Critical Temperature is important when dealing with liquefied gas cargoes. What is the IMO Gas Codes definition of the term Critical Temperature?

A : It is the temperature above which a gas cannot be liquefied by pressure alone.

IWUO : Which items are important to get an optimal separation?

A : Correct flow, pressure and temperature. (Viscosity)

IWVQ : What corrosion prevention measures should be taken if a boiler is to be out of service for an extended period?

A : Chemically dose and fill up.

IWWB : What is the ideal humidity in a working environment?

A : 40 - 60 %.

IWWK : What is the primary function of a non-return valve fitted in the suction line of a pump?

A : To prevent the suction line from draining and keeping the pump primed.



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

IXBH : Which of the survival craft listed below is equipped with a buoyant line, not less than 50m in length, of sufficient strength to tow a liferaft ?

A : rescue boat

IXDM : For what can a vessel be held responsible by a port authority?

A : Soot emissions

IXFW : When would the Chief Officer wish to consult the First Engineer?

A : Hypothermia is the condition when the core temperature of the body is lower than normal

IXHF : What do we mean with states of matter?

A : States of matter means that a substance can exist either as solid, liquid or vapour state

IXIY : Is there a time limit for when all liferafts must have been launched after sounding of abandon ship signal.?

A : 30 minutes

IXJV : What must be carried out on board a general cargo vessel, in which cargo hold alarms might be fitted?

A : Bilge soundings must be recorded daily

IXJV : When general cargo is damaged during heavy weather on a General Cargo vessel, which of the following persons should attend on board at the next port?

A : Surveyor representing the vessel's P. & I. Club

IXJV : When general cargo is damaged during heavy weather, which of the following persons should attend on board at the next port?

A : Surveyor representing the vessel's P. & I. Club

IXMR : What collective culinary term is given to the internal organs of a butchered animal, such as the heart, kidneys, liver, tripe, etc?

A : Offal.

IXPE : Once a non dangerous cargo unit has been stowed on board a RoRo vessel, what should duty crew members ensure?

A : That the vehicle is lashed immediately

IXPE : Once a vehicle has been stowed on board what should duty crew members ensure?

A : That the vehicle is lashed immediately



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

IXQS : At what temperature should Intermediate Fuel Oil (IFO) 380 be maintained so as not to damage a bulk cargo of grain?

A : Between 40°C and 45°C

IXQS : Disregarding extreme operating conditions, at what temperature should Intermediate Fuel Oil (IFO) 180 be maintained so as not to damage a bulk cargo of grain?

A : Between 30 and 35 degrees Celsius

IXTV : When calibrating an pressure transducer we have to adjust both SPAN and ZERO. Please indicate in which order these adjustments should be done.

A : First Zero adjustment and the Span adjustment. Then Zero should be rechecked.

IXUQ : Which of the following extinguishers should NOT be used on an electrical fire?

A : Water extinguisher

IXVY : On a Container vessel, under the IMDG code what class of cargoes are liable to spontaneous combustion?

A : Class 4.2

IXVY : Under the IMDG code what class of cargoes are liable to spontaneous combustion?

A : Class 4.2

IYBF : What is the meaning of the expression MARVS?

A : The meaning of MARVS is Maximum Allowable Relief Valve Setting

IYEL : What is the minimum distance between the helmet and the head of the wearer supposed to be?

A : 3 cm

IYES : What is the name of the latest IMO gas code?

A : The latest IMO gas code is IGC code International Code for the Construction and Equipment of ships carrying liquefied gases in bulk

IYJN : What action should the Master take if he is suspicious of an Officer's certificate of competency?

A : Contact the issuing authority via the company office

IYLF : The power requirements for the excitation winding/circuit for a 3-phase alternator operating at rated output power are supplied by:

A : The alternators output itself via the automatic voltage regulator



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

IYNT : An immersion suit will not sustain burning or continue melting after being totally enveloped in a fire for a period of:

A : 2 sec

IYPK : Which function is this operational amplifier circuit performing?

A : Non-inverting amplifier

IYPK : Which function is this operational amplifier performing?

A : Non-inverting amplifier

IYQF : A 3-phase induction motor is rated at 200 A Full loadline current. Its initial direct- on-line starting current will be approximately:

A : 1000 A

IYQF : A 3-phase induction motor is rated at 200 A. Its initial direct- on-line starting current will be approximately:

A : 1000 A

IYRC : The safety message announces that a station:

A : Will relay a message concerning an important navigation -or meteorological warning

IYRE : The principal objects for boiler feed water treatment should be:

A : All of the mentioned reasons.

IYTO : How much lifeboat capacity should be provided on a conventional cargo ship of more than 85 meters in length?

A : 100% of the ships complement on each side

IYUJ : On area A1 the function " Transmission and reception of signals for locating " is mainly based on:

A : the use of SART transponders

IYVI : What is the correct procedure to extinguish a soot fire in the exhaust boiler?

A : Reduce speed and use soot blowers if some are fitted

IYYL : What is a hydrostatic release unit?

A : A unit which automatically releases the liferaft/lifeboat at a depth of approx 4 metres.



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

JAFM : What is the correct understanding of the term "FAIRLEAD"?

A : Where the mooring lines lead.

JAHH : What will you serve seafarers who has been exposed to cold?

A : Warm nutritious drinks.

JAID : The Training Manual shall contain instructions and information on the life-saving appliances and the best method of survival. The training manual shall contain detailed explanations of crew duties in relation to emergency situations. Which of the following tasks or duties shall be included in the manual according to present regulations?

A : Boarding, launching and clearing of survival crafts (lifeboat/liferafts) and rescue crafts (MOB-boats).

JAIL : High level and high-high level alarms in cargo tanks on chemical tankers are normally set to activate at which of the following percentage filling levels?

A : 95% and 98%.

JAJB : What should each manufacturer of cargo tank coatings issue ?

A : A resistance guide stating which chemicals are compatible with the coating.

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A : A resistance guide stating which chemicals are compatible with the coating.

JAKR : In the light of the fact that there is always a remote possibility that a fish and meat freezer could break down, what product should you always keep enough of in stock?

A : Salt

JAKS : Your vessel has a controllable pitch propeller. The engine can be started when the propeller pitch is:

A : Zero

JALM : At which time shall required fixed fire-detection and fire-alarm systems with manual operated call points be in operation? (SOLAS II-2/13.1.1)

A : Capable of immediate operation at all times

JALP : What is the ideal humidity in a working environment?

A : 40 - 60 %

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A : 40 - 60 %.



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

JAMS : What is the depth of an iceberg below the surface of the sea?

A : The draught of an iceberg varies with the type of berg and its age.

JANQ : What must loading instruments on bulk carriers of 150m in length or more display?

A : Hull girder shear forces

JANQ : What specific data must be displayed on the loading instruments carried on bulk carriers of 150m or more in length?

A : The shear forces exerted on the hull structure associated with the entered loaded weight distribution

JANQ : What specific data must loading instruments, carried on bulk carriers of 150m or more in length, display?

A : The shear forces exerted on the hull structure associated with the entered loaded weight distribution

JAQO : According to the rules of GMDSS the required radio-equipment depends mainly on:

A : the sea area of the vessel

JAUH : What is of utmost concern when steel cargoes are carried in a bulk carrier?

A : Bending moments being greatly exceeded in the seagoing condition

JAUH : What is of utmost concern when steel cargoes are carried in large bulk carriers?

A : In the seagoing condition, bending moments exceeding design parameters

JAXC : What is STCW in the STCW Code an abbreviation for?

A : STCW means Seafarers' Training, Certification and Watch keeping

JAXE : How many protons and electrons has a carbon atom?

A : Carbon atom has 6 protons and electrons

JBCE : Why is it so important to suck back as much freon liquid as possible from the evaporators, before You stop the compressor?

A : To avoid liquid coming back to the compressor during start up.

JBEN : What action should be taken by the watchkeeping engineer if the running machinery is operating at slightly high temperature but everything else appears ok?

A : It should be brought to the attention of the Chief Engineer so that remedial action can be decided upon.



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

JBEN : What action should be taken by the watchkeeping engineer if the running machinery is operating at slightly high temperature but everything else appears ok?

A : The condition shall be noted and plans for further actions developed.

JBEU : What are the main basic components of a portable extinguisher?

A : The container, the extinguishing agent, the impulsion system

JBGH : Which of the options represents the best action to take when an item of machinery, which normally operates in automatic mode, is operated in manual mode?

A : That the main propulsion unit controls are attended under standby condition.

JBGH : Which of the options represents the best action to take when an item of machinery, which normally operates in automatic mode, is operated in manual mode?

A : Monitor the operation of the machinery on a frequent basis.

JBGS : What is the structure to which fiberglass yachts are secured once loaded on board?

A : The cradle

JBIT : During the hose testing of hatch covers what is the maximum distance from which a jet of water must be directed onto each part of every hatch cover joint?

A : 1.5m

JBKS : How should you, methodically speaking, get to know and to find relevant provisions in the book "Excerpts Excerpts from the Norwegian Passenger and Cargo Ship Legislation, etc" ?

A : By help of the Headword Register, the Chronological Register, the table of contents, the tables of contents in the respective provisions, the Preface, etc.

JBKS : How should you, methodically speaking, get to know and to find relevant provisions in the book "Excerpts from the Norwegian Ship Control Legislation" ?

A : By help of the Headword Register, the Chronological Register, the table of contents, the tables of contents in the respective provisions, the Preface, etc.

JBLI : What VHF-channel is according to the rules of the GMDSS, appointed for mutual radiotraffic between ships at sea (with the exception of co-ordination of shipping movements and other kinds of communication to safety:

A : channel 06

JBMD : How does the Norwegian Maritime Directorate keep the master/ shipowners updated on the new and amended legislation relatives to the book "Excerpts from the Norwegian Passenger and Cargo Ship Legislation, etc"

A : Through stapled-in supplements in the quarterly NMD magazine "Navigare" and Ships Documents.

JBMD : How does the Norwegian Maritime Directorate keep the master/ shipowners updated on the new and amended legislation relatives to the book "Excerpts from the Norwegian Ship Control Legislation"

A : Through stapled-in supplements in the quarterly NMD magazine "Navigare" and Ships Documents.



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

JBNJ : Which of the following should be available alongside the hand-washing facilities in the galley?

A : A bacterial liquid soap dispenser.

JCAG : How frequent should reports from protection and environmental work be send to shore based management?

A : Annually.

JCAI : We have a problem with vibration in the turbocharger. What might be the cause?

A : The turbine rotor is not balanced.

JCFG : With two alternators running in parallel, and one is to be disconnected. The first step is to:

A : Remove the load from the alternator to be stopped

JCFG : With two alternators running in parallel, you wish to disconnect one. The first step is to:

A : Remove the load from the alternator to be stopped

JCFG : With two alternators running in parallel, you wish to stop one. The first step is to:

A : Remove the load from the alternator to be stopped

JCFL : Which regulations were laid down 19 May 1988?

A : Regulations concerning the registration of hours worked and the format and keeping of time sheets.

JCFW : After discharge of any refrigerated cargo a thorough inspection of the vessel should be carried out before presenting the vessel for loading the next cargo. Amongst the reasons for this is to ensure that any traces of or residues from the previous cargo are removed. This is particularly so if a fruit or meat cargo is to be loaded after a fish cargo has been carried. Select, from the options given, the main reason for this requirement.

A : Fish is strong smelling and the odour may contaminate the next cargo.

JCNS : On the figure 4 possible definitions of the term "AFT" are shown. Which one is the correct one?

A : Aft is defined as A on the figure

JCPI : What is 'Standardized Cargo'?

A : Cargo for which the ship is provided with an approved securing system

JCQI : What would happen if, when a ship is under-going a Port State Inspection, certificates were invalid or missing

A : Rectification would be required before sailing



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

JCUS : When handling packaging materials consisting of wooden elements why is it necessary to comply with the International Standards for Phytosanitary Measures (ISPM) Code?

A : Because the wooden elements may contain pests or other invasive species

JCVE : Who has the right, in addition to the issuing authority, to inspect the ship and control the validity of the ships Safety Certificates in foreign ports?

A : Inspectors from the International Maritime Organization (IMO)

JCXX : Which of the following frequencies is used by the NAVTEX system ?

A : 518kHz

JCYL : When cleaning stainless steel tanks, it is generally required that the last water wash be of fresh water to avoid salt water or chloride damage. However, if you took fresh water from ashore and found the water chlorinated for disinfection purpose, you would:

A : Normally use it, as free or dissolved chlorine is not aggressive towards stainless steel?

JDDS : Indicate the correct name for the part marked on the sketch:

A : Connecting rod

JDLF : Although not a requirement of the IMDG Code, on a container vessel, why would carrying Calcium Hypochlorite under refrigeration be a benefit?

A : To prevent the cargo temperature increasing into the danger zone.

JDOK : Which one of the listed requirements regarding fire protected lifeboats do not correspond to present regulations? Water spray systems shall:

A : have separate draining pumps of sufficient capacity

JDOT : What is the IMDG-Code?

A : A code issued by IMO for use onboard vessels carrying packaged dangerous goods?

JDPH : You have been tank-cleaning at sea and are about to arrive in port and go alongside the terminal for loading several grades of chemicals. Many of the lines (headers) have been open for drying and inspection, but will not be required for this particular operation. What should you do with them?

A : Fit and secure a blank flange to every line that is not required.

JDPH : You have been tank-cleaning at sea and are about to arrive in port and go alongside the terminal for loading several grades of chemicals. Several of the lines (headers) have been open for drying and inspection, but will not be required for this particular operation. What should you do with them?

A : Fit and secure a blank flange to every line that is not required.

JDPL : Sometimes, in order to improve suction to the pumps when discharging "light" or "gassing" cargoes, the tanks are pressurised by admission of inert gas under overpressure from the inert gas fans. In this respect one must remember that tanks are generally dimensioned to withstand a vapour pressure of:

A : 2500 mm wg?



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

JDQB : The muster list shall show the duties assigned to crewmembers in relation to passengers in case of emergency. Which of the following duties do not necessarily have to be included in the muster list? The duties shall include:

A : ensuring that every passenger is provided with an immersion suit or a thermal protective aid

JDQF : For how long period shall a Passenger Ship Safety Certificate be issued?

A : A period not exceeding 12 months

JDRK : Why should the coil of an ac solenoid valve not be energised when demounted from the valve body?

A : The coil will overheat.

JDRW : How shall you treat the dishwashing machine?

A : It shall be cleaned daily and oiled and inspected regularly.

JDRX : If you discover alcohol and drug abuse onboard, Whom do you report to?

A : The master.

JDRX : If you discover alcohol and drug abuse onboard, Whom do you report to?

A : The master

JDTO : Which equipment will detect a signal from a SART transponder?

A : S band radar

JDUG : The rudder is hard over, full ahead in deep water. How much lift force remains when the engine is stopped?

A : About 20 %

JDUG : The rudder is hard over, full ahead in deep water. How much lift force remains when the engine is stopped?

A : - About 20 %

JEDB : Some oil cargoes contain high levels of a chemical called Hydrogen Sulphide, or H₂S. The atmosphere on deck may be monitored if you are loading such a cargo and an alarm may sound if the level of H₂S vapour around the deck becomes unsafe. Each company and terminal will have procedures, but, in general, which of the following describes the procedure that you, as a deck watchman, should follow if this happens?

A : Put on any Emergency Escape Breathing Device with which you have been issued, leave the area immediately, moving in an upwind direction, report the situation to the Cargo Control Room.

JEMU : Which of the following requirements regarding the number of lifejackets provided do NOT correspond to present regulations? (SOLAS III/7.2)

A : A number of lifejackets equal to at least 10% of the total number of passengers and crew to be placed in the vicinity of the muster stations



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

JEBV : In discussing segregation, the IMDG Code defines what it means by the term "separated from". Which of the following is that definition?

A : In different compartments or holds when stowed "under deck". Provided an intervening deck is resistant to fire and liquid, a vertical separation may be accepted as equivalent. For "on deck" s

JEWX : What would be the most probably reason for light and smoky exhaust gas?

A : Water in a cylinder.

JEYN : Which special regulations cover transportation of solid Bulk cargoes?

A : IMO Bulk Cargoes Code (BC) and the IMO International Maritime Solid Bulk Cargo Code(IMSBC)

JFBW : The thermal conductance capability is expressed by a materials thermal conductance number and states the heat quantity. What is the denomination for heat quantity?

A : Watt.

JFDH : In a distress situation how many times, or for how long is the emergency alarm signal to be sounded?

A : Until all crew members and passengers have reported to their respective muster stations.

JFFD : What is the correct definition of "lee side"?

A : The side from the wind.

JFFD : What is the correct definition of: -lee side?

A : The side from the wind.

JFFG : MARPOL 73/78 - Annex V. Disposal of garbage outside "Special Areas". After unpacking spares, you are left with a limited amount of packing materials. What will be the nearest distance to land for disposal into the sea of this materials?

A : 25 miles

JFJN : Gas welding is carried out in the work shop. Prior to lunch break the following precaution is carried out:

A : The main supply valves in the deck storage are closed prior to switching to UMS-mode

JFPI : For what reasons may SOLAS certificates be extended, where permitted

A : To complete a voyage (max 5 months) or at a surveyor's discretion (max 1 month)

JFRS : In case a message, destined for a telex-subscriber a shore, sent via an Inmarsat-C installation on board:

A : there is never on-line connection with the shore-subscriber



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

JFSQ : On board they want to establish a telex connection by HF-set with the ship Apollogracht. In the guides you find for the Apollogracht the following ID's: 244320000, 424432010, 424432020, 1300210, 36715. What ID should be chosen:

A : 36715

JFVP : Four similar ship-types experience beam sea conditions. Which of them will first experience resonant rolling?

A : The ship with the smallest beam

JFVP : Why is it considered essential that container ships have a large ballast capacity and high powered ballast pumps?

A : These are required for trimming the ships and offsetting longitudinal bending moments

JFVX : What is the definition of a serious injury as it relates to MAIB

A : An injury, other than a major injury, when the injured person is incapacitated for more than 3 consecutive days

JFYD : How many lifejackets are required in a passenger cabin?

A : Same number as beds in the cabin

JGAE : Signals used by aircraft engaged in search and rescue operations to direct ships towards an aircraft, ship or person in distress. What is the meaning of the signal?

A : The aircraft is directing a vessel towards an aircraft or vessel in distress

JGBT : Give the meaning of the following symbol

A : Radar transponder

JGGR : Are there any restriction on entry into cargo holds at sea?

A : Permission must be obtained from Chief Officer?

JGIU : A portable oxygen analyser for use onboard ship is of the paramagnetic sensing element type. It is being used to test the atmosphere of a space onboard ship but starts to give erratic readings. There is no obvious indication as to why this is happening. Select from the options given the most likely cause of this problem.

A : The sampling filter is partially blocked giving rise to wide pressure variations in the sampling chamber.

JGMM : During loading or discharging liquefied gas cargoes it is important to control the pressure in the cargo tank. What is the preferred method of maintaining pressure and avoiding a vacuum condition in the cargo tanks while discharging?

A : We can, reduce discharge rate, pump hot vapour into the cargo tank or pump some liquid back to the cargo tank

JGNE : Which information should be included in your search plan?

A : Areas to be searched and personnel to be involved in the search.



JGNK : To guarantee optimal reception of VHF-DSC-calls as every:

A : DSC-symbol is sent twice and checked extra by Error Check Character

JGNK : To guarantee optimal reception of VHF-DSC-calls, every:

A : DSC-symbol is sent twice and checked extra by Error Check Character

JGRM : Which regulations apply to the Hours of Work

A : STCW 95

JGSJ : According to European standards (E.N.) fire can be classified...

A : A, B, C, D

JGXH : During maintenance work on a compensated mechanical hydraulic governor air is drawn in to the hydraulic circuit after draining and flushing out the unit. Which of the actions given in the options is most likely to assist in the removal of the air from the system?

A : With the governor in operation open the compensation needle valve to introduce

JGYG : Reflection of radio waves in the ionosphere depends on:

A : sunspots

JHBM : Messages sent via INMARSAT C are charged

A : on the number of kilobits of information transmitted per block of 256 bits

JHBM : Messages sent via INMARSAT C are charged:

A : on the number of kilobits of information transmitted per block of 256 bits

JHBO : What type of nozzles for fire hoses shall be used aboard ships? (SOLAS II-2/4.8.4)

A : Dual purpose (jet/spray) type incorporating shutoff

JHGL : Who is normally deciding which search pattern to use?

A : OSC

JHHH : When a satellite receives a "distress alert" from a Cospas-Sarsat EPIRB, the relay of the "distress alert" can be delayed because the satellite cannot immediately contact a:

A : LUT before the satellite is actually seen by this ground station



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

JHKS : What is the meaning of this symbol ?

A : Line-throwing appliance

JHND : If Mouth - to - Mouth (M-T-M) ventilation by itself is unsuccessful and the casualty's heart stops, or has stopped beating, you must perform External Chest Compression (ECC) in conjunction with M-T-M. What is the complete rate when performing ECC?

A : Complete 15 compressions at the rate of 80 compressions per minute

JHQR : What would be the most probable cause of light, smoky exhaust?

A : Water in one or more cylinders.

JHRL : Which one of the listed items has to be included in a distress message?

A : Identification of the ship.

JHRM : ISGOTT defines "volatile petroleum"

A : The quality of the Crude Oil Washing performed during the last discharging

JHRM : ISGOTT defines "volatile petroleum" in terms of its flashpoint. What is the critical temperature and how is it described in the definition?

A : The quality of the Crude Oil Washing performed during the last discharging

JHTQ : Under the U.S. Occupational Safety and Health Administration (OSHA) regulations what are semi-automatic twistlocks used for?

A : Lifting two intermodal containers together one on top of the other connected by semi-automatic twistlocks

JHTQ : When can semi-automatic twistlocks be used, under the U.S. Occupational Safety and Health Administration (OSHA) regulations?

A : When used to lock two empty intermodal containers that are to be lifted, one on top of the other

JHUY : When a vessel violates the oil pollution laws, who may be held responsible?

A : Any one involved in the operation

JHVR : A large 2 stroke engine is normally controlled from the bridge during manoeuvring. In this type of automated control for the starting system what would normally cause the Engine Failed to Start alarm to be activated and to lockout starting from the bridge?

A : 3 failed start attempts.

JHVV : Give the meaning of the following symbol

A : Survival craft distress pyrotechnic signals



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

JHWO : What is the most utilised pump type for cargo discharge on a gas carrier?

A : An electrical operated submerged centrifugal pump.

JHWO : What type of pump is the most commonly used for cargo discharge on an LNG carrier?

A : An electrically driven deep-well or submerged centrifugal pump.

JHYC : You are a Senior Officer of the Watch on vessel "A" and are passing through the Straits of Gibraltar. The vessels speed is 18 knots and your vessel is overtaking several other vessels, when the visibility reduces down to about 2 nm. What aspects would you consider when establishing a "safe speed" for your vessel?

A : Follow your track and reduce the speed to keep your vessel in line. Overtake the other vessels after the strait is passed.

JHYC : You are a Senior Officer of the Watch on vessel "A" and are passing through the Straits of Gibraltar. The vessels speed is 18 knots and your vessel is overtaking several other vessels, when the visibility reduces down to about 2 nm. What aspects would you consider when establishing a "safe speed" for your vessel?

A : - Deciding safe speed consider: 2 miles visibility

JHYU : To achieve best possible combustion in our engine, we want to have:

A : an atomization of the fuel injected into the combustion chamber.

JICN : What is the top priority if an incident occurs in US waters (OPA-90)

A : Safety of ship and crew

JICP : What makes a one-way seat valve open and closed?

A : It is higher pressure on one side of the seat than on the other side, and it is shut manually or by change of pressure on the seat

JIEU : In radio-telex distress traffic preference is given to:

A : FEC

JIGR : What effect will a low operating temperature of the boiler feed water system have on the condition of the feed water supplied to a high pressure boiler?

A : It will cause the amount of dissolved oxygen in the feed water to increase.

JIKQ : Which of the aggregate states have fixed volume, but not any fixed form.

A : Fluids (liquids).

JIOE : How is the temperature of the high temperature circuit of a central cooling system normally controlled?

A : By mixing with water from the low temperature circuit.



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

JIQO : The figure shows the cross section of a ship floating in water with the hull coloured in red and the seabed below the vessel shaded. On this figure there are four (4) possible definitions of the term "UNDERKEEL CLEARANCE" given. Which one is the correct one?

A : Freeboard is given by B on the figure

JIRC : Methane/air mixtures in the range of 5.3 - 14% are flammable and have an auto ignition temperature of approximately 595 degrees C. What is meant by the term auto ignition temperature?

A : It is the temperature at which the mixture will spontaneously ignite and continue to burn without an external source of ignition.

JIRL : I n F 1 B
m o d e :

A : the amplitude of the carrier-wave changes

JJUS : Under the auspices of the Paris Memorandum who would carry our Port State or Flag State inspections in the UK?

A : Marine Officers of the MCA

JJXC : Your vessel is entering a tropical area and high humidity is expected. To avoid condensation in the main engines air cooler, it is recommended to:

A : Increase scavenging air temperature to above dew point

JJXI : The following DSC message was received:(see original)This message was sent by a:

A : vessel

JJBV : Emergency instructions in appropriate languages shall be posted in passenger cabins. Which information shall as a minimum be included in the emergency instructions?

A : The method of donning life-jackets, escape routes and alarm signals

JJBY : On a RoRo vessel, what standing instruction should be given to prevent a blackout on board?

A : Check with the duty engineer before switching on motors, fans or other machinery

JJBY : What standing instruction should be given to prevent a blackout on board?

A : Check with the duty engineer before switching on motors, fans or other machinery

JJBY : What standing instruction should be given to prevent a possible blackout on board a ro-ro vessel?

A : To check with the duty engineer prior to switching on motors or other machinery that take a heavy load

JJEP : In a pump with a single impeller rotating in a case or volute form, the fluid enters the impeller axially in the center. Relative to the impeller it continues radially, and discharges around the entire impeller circumference. Is this working principle called:

A : Dynamic pressure pump (or roto-dynamic pump).



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

JJEU : A hydraulically operated exhaust valve on a large slow speed diesel engine has been overhauled as part of the scheduled maintenance for the engine. During a test run of the engine the valve is found to be slamming shut. Which of the adjustments given in the options should be carried out to correct this condition?

A : The throttle valve on the hydraulic system should be closed in.

JJFA : Refrigerated perishable cargo is being loaded onto a conventional reefer vessel. The produce is packed in plastic netting sacks. Select, from the options given, the most likely type of cargo being loaded.

A : Frozen offal.

JJFA : Select the option which best completes the following statement. "When carrying out repairs to damaged hatch gratings it is best to use"...

A : ...galvanised crosshead screws.

JJGL : Which one of the listed requirements regarding liferafts does not correspond to present regulations? Every liferaft shall be so constructed that:

A : it's canopy has viewing ports in all directions

JJGL : Which one of the listed requirements regarding liferafts do not correspond to present regulations? Every liferaft shall be so constructed that:

A : it's canopy has viewing ports in all directions

JJKM : Who must sign (and countersign) entries in a Cargo Record Book?

A : Each completed operation shall be signed for and dated by the officer or officers in charge and, if applicable, by a surveyor appointed by the competent authority of the State in which the shi

JJKM : Who must sign (and countersign) entries in a Cargo Record Book which documents cargo and cleaning operations on a chemical tanker?

A : Each completed operation shall be signed for and dated by the officer or officers in charge and, if applicable, by a surveyor appointed by the competent authority of the State in which the shi

JJLF : Which of the following is the correct minimum carriage requirement for a ship of more than 300 gross tons and operating in area A2:

A : 1 VHF RT + DSC+ DSC watch receiver - 1 or 2 SART - 1 NAVTEX or 1 EGC receiver - 2 or 3 VHF portable - 1 EPIRB - 1 MF RT + DSC+ DSC watch receiver

JJQA : Is it required to have a full secondary barrier when the cargo containment system of an LNG carrier has spherical Type "B" tanks?

A : No, only a partial secondary barrier in the form of a drip tray is required.

JJQA : Is it required to have full secondary barrier on spherical Type "B" tanks?

A : Only partial secondary barrier required.

JJQN : What do international and national maritime authorities say about passenger list?

A : All personnel onboard (crew and passengers) shall be registered in order to keep track of total number of person on board



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

JJRG : A high pressure, oil fired steam boiler operates with an automatic combustion control system for start, stop and modulation of the burners. Which feature of the combustion control system is intended to minimise the risk of blowback during normal operation?

A : Pre-purge of the furnace prior to burner ignition.

JJSC : What is the first line of defence against ingress of water into a bulk carrier?

A : The shell plating

JJXG : Where should containers with fishmeal cargo be carried?

A : On deck

JKAN : Give the meaning of the following symbol

A : Gas detector

JKAO : Perishable cargo is usually stowed on wooden pallets. The pallets are designed for either two-way or four-way fork lift entry. From the point of view of use on a refrigerated vessel, choose the option which highlights the most important difference between these two types of pallet.

A : It does not matter which way around the four-way pallet is stowed.

JKDV : The use of steam driven ejectors for ventilation of cargo tanks containing flammable vapours is not recommended now-a-days due to:

A : Steam at high velocities may generate static electricity which might cause incentive sparks?

JKDV : The use of steam driven ejectors for ventilation of cargo tanks having flammable vapours in them is not recommended now-a-days due to:

A : Steam at high velocities may generate static electricity which might cause incentive sparks?

JKEW : What type of lashing arrangement are needed on weather deck for securing two container high?

A : Twistlocks and rods with turnbuckles?

JKGC : The responsibility for the transmitting equipment lies with the:

A : master

JKGH : If a leak occurs in a lube oil cooler, the water cannot mix with the oil because the:

A : Oil pressure is greater than the water pressure.

JKHA : Which vitamin is to be found only in foods from the animal kingdom?

A : Vitamin A



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

JKHB : For which ships is the MARPOL convention applicable?

A : For all vessels.

JKJV : On a Container vessel, what will attending surveyors inspect when containers have been lost overboard?

A : Certificates of approval related to lashing equipment used to secure those containers

JKJV : What will attending surveyors inspect when containers have been lost overboard?

A : Certificates of approval related to lashing equipment used to secure those containers

JKQP : What must be ensured at the commencement of cargo operations?

A : That CO2 gas lines to each cargo hold are clear

JKRE : How should you, as helmsman, give feedback to the OOW (officer on watch) that his orders are understood?

A : By repeating the order

JLAV : Following maintenance work on an air compressor the engine room rating is asked to put the tools away. It is noticed that an allen key is missing from the set. What action should be taken?

A : Inform the engineer in case it has been left inside the compressor when it was closed up.

JLBA : A centrifugal filter relies on the centrifugal force and can therefore remove:

A : High density, sub - micron particles.

JLBI : Which item among those below is included in the normal equipment of every lifeboat ?

A : portable fire-extinguishing equipment suitable for oil fires

JLCB : What is the purpose of the accumulation test required by Classification Societies for boiler safety valves before the valves can be approved?

A : Ensure the valves are of the correct discharge capacity for the boiler.

JLCJ : On a Container vessel, what should be done if a twistlock is found cracked at the base?

A : Remove it from service

JLCJ : What should be done if a twistlock is found cracked at the base?

A : Remove it from service



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

JLCY : There has been an accident on board. Urgent medical advice is needed. The call is preceded by:

A : urgency signal

JLDH : HP pressure fuel pumps for medium speed engines are often provided with visible witness marks on the pump casing and the pump tappet. These along with flywheel position can be used to check the fuel timing for the individual pump. Wfrom the options given select what is actually indicated when the witness marks are aligned?

A : That the pump plunger has just covered the spill port.

JLES : Which of the 3 alternatives given is correct for an AND-gate?

A : Figure 3.

JLFY : What is important when checking cargo lashings?

A : The tightness of all lashings

JLFY : What is important when checking cargo lashings on a General Cargo Vessel?

A : The tightness of all lashings

JLHM : During maintenance of a piston rod stuffing box on a large, slow speed diesel engine it is usual to measure the butt gaps between the sealing ring and scraper ring segments. What would be the effect of these gaps being too small?

A : If the gaps are too small they could close due to the radial wear of the rings before the

JLQD : Which of the following detailed explanations should be mentioned in the Training Manual ?

A : The use of the ship's line throwing apparatus

JLRA : What equipment is provided in a liferaft to help you keep warm in cold weather?

A : The floor of the raft has a second layer which can be inflated to help insulation, in addition to the thermal protective aids (10% of complement, minimum 2)

JLRE : You are proceeding along a coastal route when you hear this signal. The visibility is severely restricted. What does the signal mean?

A : There is a vessel aground in the vicinity. She is more than 100 metres in length. She is sounding an additional warning to approaching vessels that they are "running into danger".

JLSA : inserted image

A : Prominently marked and easily accessible

JLSA : The emergency oil pollution equipment locker must be:

A : Prominently marked and easily accessible



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

JLSA : The oil spill removal equipment store must be:

A : Prominently marked and easily accessible

JLSV : Which of the following items SHALL be included in a fire drill?

A : reporting to stations and preparing for the duties described in the muster list

JMHV : What is the period of validity of an IOPP certificate

A : 5 years

JMJG : A rating on boiler watch notices water coming from the safety valve chest drain while the boiler is in operation. What action should be taken by the rating?

A : Contact the engineer officer of the watch and inform him immediately.

JMLY : Which of the following are frequent causes of fires in accommodation?

A : 1 Smoking in bed. 2 Covering of electric fires with blankets. 3 Overloading electric plugs.

JMMT : If you detect a fire on board the ship, dependent on the situation, which of the following actions is the first to be taken?

A : Raise the fire alarm.

JMNL : What is the result of a large metacentric height?

A : The ship will roll violently.

JMUH : The image shows an indicator diagram taken from a diesel engine cylinder . Which of the following options is the action most likely to identify the fault.?

A : Check fuel injector valve, fuel injection timing, fuel pump suction valve and fuel pump lead

JMUH : The image shows an indicator diagram taken from a diesel engine cylinder. Which of the following options is the action most likely to identify the fault.?

A : Check fuel injector valve, fuel injection timing, fuel pump suction valve and fuel pump lead

JMUI : The ship is berthed in a steady offshore beam wind of 30 knots which suddenly increases to 60 knots. What will be the change of force exerted on the ship driving it off the jetty?

A : Quadrupled

JMUI : The ship is berthed in a steady offshore beam wind of 30 knots which suddenly increases to 60 knots. What will be the change of force exerted on the ship driving it off the jetty?

A : - The force will be Quadrupled



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

JMVB : Who has the overall responsibility for the general supervision of ships and for matters governing the seaworthiness of ships?

A : The Norwegian Maritime Directorate

JMYM : In a circuit diagram of a simple hydraulic circuit, what does the following symbol indicate?

A : Double check valve.

JMYM : In a circuit diagram of a simple hydraulic circuit, which of the alternatives does the following symbol indicate?

A : Double check valve.

JNDM : Satellites which receive the 406 MHz Cospas-Sarsat EPIRB are:

A : capable to determine the position of the EPIRB

JNIS : You want to make a telephone call to another ship operating in Indian Ocean Region. Which sequence will you key into your INMARSAT A terminal?

A : CES two digits code # 00 873 SES INMARSAT code #

JNKL : What is the most important reason that personnel onboard an LNG carrier should become fully familiar with the vessel, the equipment and their duties as soon as possible?

A : So that in the event of an emergency appropriate action can be taken to limit damage and avoid injury.

JNKL : Why is it important that you become familiar with vessel, the equipment and your own duties onboard as soon as possible?

A : In an emergency situation you need to know the position and use of different safety- and fire fighting equipment, and what to do.

JNMP : Power is available at a three-phase motor starter but nothing happens (at starter or motor) when the start button is operated. Which of the following is a likely cause?

A : Faulty contactor coil

JNOB : What is the resistance value of this resistor:

A : 10 k ohm

JNOB : What is the resistance value of this resistor:

A : 10 M ohm

JNPC : What do you call the method used for bone-soft part injuries?

A : ICE-method.



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

JNPJ : What kind of permits have to be obtained before starting hot work in tanks?

A : Hot work permit + Permit for entry.

JNQE : At what latest time shall doors, side scuttles, gangway doors, cargo- and coaling ports and other openings which are to be kept closed watertight at sea be closed at the start of the voyage?

A : Before leaving the port

JNTH : Where can you find what your duties are during a life boat drill?

A : Muster List

JNTH : Where can you find what your duties are during a life boat drill?

A : Alarm instruction.

JNTN : Which of the following is the correct minimum carriage requirement for a ship of more than 300 gross tons and operating in area A1:

A : 1 VHF RT + DSC+ DSC watch receiver - 1 or 2 SART - 1 NAVTEX or 1 EGC receiver- 2 or 3 VHF portable - 1 EPIRB

JNUC : How should the sample locker be fire protected ?

A : It should be protected by a fixed fire fighting system i.e. sprinkler system.

JNUH : Which item among those below is included in the normal equipment of every lifeboat ?

A : a food ration for each person

JNXO : Which item among those below is included in the normal equipment of every lifeboat ?

A : one copy of the prescribed life-saving signals

JNYL : Searches are often triggered by:

A : An increase in security level by the Flag State.

JOCU : The explosive range of petroleum vapors mixed with air is :

A : 1% to 10%

JOEP : When small amounts of cleaning additives (detergent products) are added to water in order to facilitate tank washing, what conditions apply?

A : No additives containing Pollution Category "X" components shall be used, except those components that are readily biodegradable and present in a total concentration of less than 10% of the



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

JOEP : When small amounts of cleaning additives (detergent products) are added to water in order to facilitate the washing of tanks which previously contained liquid chemicals, what conditions apply?

A : No additives containing Pollution Category "X" components shall be used, except those components that are readily biodegradable and present in a total concentration of less than 10% of the

JOKT : If the heat transfer capacity in a heat exchanger is dropping, the following action should be taken:

A : Clean the heat transfer surface

JOKT : If the heat transfer capacity in a heat exchanger is dropping, the following action should be taken:

A : The heat transfer surfaces should be cleaned

JOPB : An O/O ship mean Ore/ Oil, but what can she really carry?

A : Either Ore or Oil.

JORR : The following DSC-message was received:(see original)TELECOM: G3E SIMP TEL means:

A : go to simplex telephony

JOSN : Which of the following regions lies outside Sea Areas A1, A2, and A3?

A : Sea Area A4.

JOTI : During overhaul of some plate type compressor valves the engine room rating is asked to clean the valve plates and seat. Some of the valve plates are heavily marked. What action should be taken?

A : Discard the defective valve plates and replace them with new spares.

JOVY : Which of these statements about drug smuggling is true?

A : The risks to ships are not restricted to specific areas or trading routes.

JPGR : Which one of the listed requirements regarding the stowage of rescue boats corresponds to present SOLAS regulations. Rescue boats shall be *stowed:

A : So that neither the rescue boat nor its launching arrangements will interfere with any survival craft at any other launching station

JPJV : Some process control systems may have several inputs and controlled variables. In this context what is meant by split-range?

A : Several control-valves are connected to the same controller

JPJV : Some process control systems may several inputs and controlled variables. In this context what is meant by split-range?

A : Several control-valves are connected to the same controller



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

JPKQ : For a large increase in the specific gravity of the oil, the gravity disc hole diameter should be:

A : Reduced.

JPLK : What type of ships are LNG carriers?

A : Type 2G ship.

JPLK : What type of ships are LNG carriers as designated in the IMO IGC code?

A : Type 2G ship.

JPNP : A high pressure boiler is operating with all parameters normal except that the firing rate is high and the superheater temperature is high. Which of the options given is the likely cause of this condition?

A : The generating and screen tubes are fouled.

JPOX : On which channel a ship must maintain a continuous watch when sailing in area A1?

A : 70

JPPA : What is meant by the term "keeping a proper lookout" as applied to the bridge lookout?

A : A balanced assessment between keeping a visual lookout and monitoring the radar

JPTG : What is the function of the ESD on a gas carrier?

A : The function of the ESD is to close loading valves, switch of power to cargo compressors and pumps

JPYF : Give the meaning of the following symbol

A : Area protected by halon

JQBS : Some centrifugal cargo oil pumps are designed with an automatic stripping system, which allows the cargo oil tank to fully discharge its contents. By what principle does such a stripping system operate?

A : To maintain the required pressure and flow to the machine in use.

JQCH : What does the Chief Mate want the OS to do?

A : He wants the OS to show him where the switch that changes between automatic, manual, and emergency steering is

JQCJ : What alarm signal is to be sounded by the alarm bells in case of fire onboard ships?

A : Series of short blasts



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

JQEC : Cargoes of frozen beef and chilled beef have approximate carriage temperatures of minus 18 and minus 1 degree Celsius respectively. Greater care is required when carrying chilled beef as it is more sensitive to deviations from, and requires finer control of, its recommended carriage temperature. Which option best completes the following statement? "This additional care is worthwhile because"...

A : ...chilled beef commands a much higher price in the market.

JQFQ : When could there be a demonstration of how to start a lifeboat engine?

A : He wants the Chief Officer to organise a lifeboat drill

JQJB : In a crisis, which crew behaviours are most reassuring to passengers?

A : enthusiasm, confidence, decisiveness

JQKS : When modulating the amplitude:

A : the amplitude is modulated

JQLJ : What legislation governs UK ship registration

A : Merchant Shipping Act 1995 and Merchant Shipping (Registration of Ships) Regs 1993

JQLN : At what latest time shall doors, sidescuttles, gangway doors, cargo- and coaling ports and other openings which are to be kept closed watertight at sea be closed at the start of the voyage?

A : Before leaving the port

JQMN : The wave length of a radio signal in the ether is mainly determined by:

A : frequency

JQQA : According to ISGOTT, when in-service testing a hose used for cargo transfer on an oil tanker (and for which the elongation of the hose assembly when new was greater than 2.5%), what is the maximum permitted elongation before the hose must be withdrawn from service?

A : Not more than 1.5 times the temporary elongation measured when the hose assembly was new, as documented in the manufacturers certificate.

JQQS : On chemical tankers, where dangers of both flammable & toxic gases exist, instruments to detect these shall be provided. If portable equipment is provided, you shall have:

A : At least two sets of instruments to detect each type of gas expected to be encountered?

JQWN : Give the meaning of the following symbol

A : Fire main with fire valves

JQXA : What advantage(s) has the use of Inert Gas System on a oil tanker?

A : Lowers oxygen content in the tank



JQYB : What class of fire involves gas?

A : Class C fire

JQYS : Which of the following measures should be applied when hot work is to be undertaken in a harbour.

A : To have a hot-work permit

JRCD : An area A2 is:

A : an area excluding sea area A1 within the radiotelephone coverage of at least one MF coast station in which continuous DSC alerting is available

JRDY : How many maintenance methods must be provided by ships sailing in area A1 and A2

A : 1

JRHG : Which wave length applies to a frequency of 2000 kHz?

A : 150 mtr

JRHI : A VHF transmission range is mainly determined by:

A : the height of the aerial

JRKE : Why is it important to make weekly/routine rounds in the accommodation areas?

A : To ensure that cabins and common spaces are maintained in a clean, safe and hygienic condition

JRLN : What is the meaning of "stand by"?

A : That the watch keeping personnel shall be ready for starting or manoeuvring the main engine.

JRUO : Identify this symbol:

A : Emergency generator?

JRUR : What type of vessel is this?

A : Vessel not under command and not making way

JRUT : In case of a fire inside the Acetylene-line in the ac/ox gas welding equipment, what action is deemed necessary?

A : Close the valves on both the Acetylene and the Oxygen bottles.



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

JRVK : What is the most important factor in the masters ability to make good decisions in an emergency?

A : Feedback from the crew

JRXE : By whom must a Cargo Securing Manual be approved?

A : The flag administration

JRXE : How does a chemical detector tube work?

A : A sample of the atmosphere inside the compartment is drawn through a chemical reagent in a glass tube. The surface of the reagent becomes progressively discoloured as more contaminant vapour

JRYO : What is the purpose of cooling down cargo tanks before loading?

A : To avoid excessive boil off during and prevent thermal shock to the primary containment system.

JRYO : What is the purpose of cooling down the cargo tanks before loading an LNG carrier?

A : To avoid excessive boil off during and prevent thermal shock to the primary containment system.

JSAJ : The "clarifier" has only effect during:

A : Receiving in mode J3E

JSBE : What are the duties of the master regarding a sick or injured seafarer?

A : He shall arrange for proper, including medical, care.

JSFO : What is the difference between the protection supervisors and the protection and environment committees area of activity?

A : The supervisor's field is the work situation, the committee's the total environment, also spare time

JSFO : What is the difference between the Safety Representative and the Working Environment Committees area of activity?

A : The supervisor's field is the work situation, the committee's the total environment, also spare time

JSGE : What quantity of service fuel must be available for a diesel driven emergency pump before it is necessary to use any reserve fuel?

A : To allow at least 3 hours of operation

JSGT : On a General Cargo Vessel, what do Tonnes per Centimeter Immersion (TPC), Moment to Change Trim by one Centimeter (MCTC) and Longitudinal Centre of Floatation (LCF) have in common?

A : They vary with changes in displacement



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

JSIB : Why is it important to have good list during final draining?

A : To bring the remaining oil to the stripping suction

JSIW : Which statement is correct for a fire door class "A-60"?

A : Class "A-60" fire doors shall prevent the passage of smoke and flame and the average temperature of the unexposed side shall not rise more than 180 degrees Celsius within 60 minutes

JSMW : How can we maintain necessary NPSH?

A : By control of liquid flow

JSNV : You are duty officer on board a vessel in open sea. The look out is doing work and you are alone on the bridge, presently checking the position in the chartroom. Suddenly you are colliding with a fishing vessel. You will be most to blame for the collision, because of:

A : You did not maintain a proper lookout by all available means

JSNY : The temperature control for the central cooling system low temperature circuit has failed and a new 3 term controller is to be fitted. Which of the given options would be the correct method of setting up the controller?

A : Set the proportional action first.

JSOP : A severe blow to or a heavy fall on the upper part of the abdomen (solar plexus) can upset the regularity of breathing. What is the symptoms and signs?

A : Difficulty in breathing in and the casualty may be unable to speak.

JSRC : Which one of the listed requirements regarding the stowage of a survival craft corresponds to present SOLAS regulations? Each survival craft shall be stowed:

A : In a secure and sheltered position and protected from damage by fire or explosion.

JSWF : According to the industry guidelines in the ISGOTT Guide and assuming terminal regulations do not require otherwise, what action should be taken to drain accumulated water from the deck during cargo handling operations in rainy conditions?

A : The water to be drained periodically and scuppers to be closed in between. Oily water to be transferred to slop tanks or other suitable receptacle?

JTBC : What class of fire is a smouldering fire of wood, textiles, paper and other carbonaceous materials?

A : Class A

JTCB : What should be on the deck immediately outside the door to a walk-in refrigerator?

A : Non-slip matting.

JTIQ : The deaerating heater is used on

A : The closed-type feed-water system



JTJS : MF radio signals mainly propagate mainly:

A : along the curvature of the earth

JTKQ : The primary concern during any emergency - and that also includes collision - is to take the correct steps to save the crew and the vessel. The vessel has been involved in a collision. Which of the following steps do you consider as the most important?

A : Sound the General Alarm - carry out emergency actions.

JTLD : The most important preparation prior to Arrival to / Departure from ports is:

A : Start an additional auxiliary engine

JTOQ : What is the minimum number of lifebuoys that shall be provided with self-igniting lights and self-activating smoke signals?

A : 2

JTPI : Which vitamin is most easily destroyed by boiling?

A : Vitamin C

JTQE : The biggest lifeboats on board ships may accommodate

A : up to 150 persons

JTRF : Which item among those below is included in the normal equipment of every rescue boat ?

A : sufficient buoyant oars or paddles provided with thole pins or crutches

JTXR : Anyone who makes or permits a false entry to be made in the logbook shall be punished by imprisonment of up to 1 year according to:

A : The General Civil Penalty Code § 315 .

JTXR : Anyone who makes or permits a false entry to be made in the logbook, shall be punished by imprisonment of up to 2 years according to:

A : The General Civil Penalty Code § 315 .

JUEN : To avoid overbunkering and/or oil spill, preparation has to be done, and a check list made, to ensure that nothing has been forgotten. Which point on this list do you consider as most important (one answer only)?

A : If you are taking bunker on the port side of the vessel, check that the starboard manifold is closed and blanked off

JUEQ : What is the correct definition of: -let go?

A : Cast off the rope.



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

JUES : We are taking a crankshaft deflection control of the engine. The reason is:

A : to control the wear down of the main bearings.

JUES : We are taking a crankshaft deflection control of the engine. The reason is:

A : To check for wear down of the main bearings

JUHV : Which of the following statements will direct a fire-fighting team to the source of fire?

A : Pyrotechnics are the items which are capable of self-contained chemical reactions for the production heat, light, smoke and/or sound

JUHY : The ship-shore HF-telephone-channel 1615 consists of the frequencies 16402.0 kHz and 17284.0 kHz. In case of manual operation, one should tune the receiver on:

A : 17284.0 kHz

JUIQ : The charge air pressure is reduced with 0,2 bar. What is the result of that?

A : The performance of the engine is reduced noticeably.

JUIS : The maximum rudder angle on your ship is 35 degrees. Do you think this is the angle that the rudder is most effective?

A : No, the most effective rudder angle is about 25 to 30 degrees, this is because the rudder is "stalling" at 35 degrees angle

JUKC : A reefer vessel is to load a part cargo of frozen beef hocks (large joints of beef, usually quarters, not packed in cartons). In deciding which would be the most appropriate space on a conventional reefer vessel, which of the given options would be the preferred choice?

A : 1C deck as this is the narrowest space on the vessel and will best constrain the cargo from any possible movement during the voyage.

JUMT : You are experiencing large hunting on the fresh water cooling system. What is the reason?

A : You have a cracked liner, or cover.

JUPC : How should the tug be secured to the ship, when the bridge tells the poop that "It is the tugs wire"??

A : He wants two spring lines, four stern lines and no breasts

JUSP : Has economy anything to do with cleaning?

A : Yes, cleaning is maintenance and contributes to keep expenses down.

JVBE : What would be the most probable cause of too high exhaust gas temperatures in all the cylinders?

A : The chain is slack, dirty turbocharger or glogged turbocharger filter.



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

JVDO : What will You do if the liquid start raising in the Surge Drum? (Direct cooling system)

A : Immediately reduce on the suction valve, and watch the Open more on the suction valve gauge.

JVIQ : Which of the following information shall be specified by the muster list ?

A : action to be taken by crew and passengers

JVIQ : Which of the following information shall be specified by the muster list?

A : action to be taken by crew and passengers

JVLB : The best way to prevent stowaways from boarding your ship is to:

A : Seal spaces that are not in use while in port, and perform a search of the ship before leaving.

JVMT : In what format will an On-Scene Co-ordinator report such information as on-scene weather and operation progress to other parties?

A : - SITREP

JVPG : Which regulations detail the work of safety officials

A : The MS and FV (Health & Safety at Work) Regulations 1997 (The HSW Regulations)

JVPH : What is one of several requirements in IBC/BCH when loading Acids ?

A : Connections on manifolds and jumpers should be protected with spray shields to guard against spray.

JWAG : What is very important to do when starting to crude oil wash?

A : To fill up the lines slowly.

JWHN : On a Ro-Ro vessel what would be the effect of a small GM?

A : A slow roll period

JWHU : DSC uses for automatic identification the MMSI. The identification 002442000 is assigned to:

A : a coast-station or coastguard-station

JWHW : The display of a DSC-controller on board shows the following options: (see original)If a DSC-message is intended for vessels in a certain geographical area, one chooses:

A : G.Area



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

JWIN : Which factor influences the pumping capacity (flow) of a centrifugal pump the most?

A : Total pressure head

JWLW : Which items are important to get an optimal separation?

A : Correct flow, pressure and temperature. (Viscosity)

JWOJ : Where is the best position of the oil/water interface in these figures?

A : Position A.

JWPF : You are on a sailing vessel, underway in open water. This vessel is sighted on the starboard bow, on a steady bearing and the distance is closing. By the International Regulations for the Preventing Collisions at Sea, what action will you follow?

A : By Rule 18, a power-driven vessel underway shall keep out of the way of a sailing vessel. I will maintain my course and speed, but will continue to monitor situation to ensure the other vessel

JWTC : A vessel's forward draught reading is 8.50m with a correction factor of 0.0242m; draught marks are painted abaft the forward perpendicular. What is the corrected forward draught if the vessel is trimmed by the stern?

A : 8.4758m

JWUC : Optimum cleaning effect in a lube oil purifier is achieved by:

A : Keeping the lube oil in a state of low viscosity for a long period in the centrifuge bowl.

JWWL : A detector that is activated by a rise of temperature is:

A : a thermic detector

JWWN : Which vitamin is there most of in flour and corn products?

A : Vitamin B

JWXG : Which of the following is a staple part of the norwegian diet?

A : Potatoes.

JWXG : Which of the following is a staple part of the Scandinavian diet?

A : Potatoes.

JWXH : How is the officers of passenger ships to be informed of the ships stability in damaged conditions?

A : By permanently exhibited damage control plans



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

JWXI : For how long should a tank be ventilated when people are working inside?

A : For as long as people are working in the tank.

JWXR : What are the compartments to be regularly checked with regard to water and oil leakages?

A : All those listed in the other alternatives

JXNL : Vent fans and fan ducts located in hazardous locations, if made of ferrous materials, require a certain clearance between the impeller tips and the casing (to preclude any sparking). If you are doing an overhaul, you would ensure this clearance is at least:

A : 13.0 mm?

JXNU : Which of the following is a false statement in relation to; the best advice to a first aider is to:

A : Call the doctor immediately

JXOH : What are you normally calling the compressor that collects the boil-off from the header connected to each cargo tank?

A : The low-duty compressor.

JXOH : Which term is usually used to describe the compressor that collects the boil-off from the header connected to each cargo tank of an LNG carrier?

A : The low-duty compressor.

JXQR : Give the meaning of the following symbol

A : Rocket parachute flares

JXRM : How much can the concentration of oxygen in the air decrease before it is dangerous to stay in the atmosphere without breathing apparatus?

A : 2 - 3 %

JXTB : How will you treat a seasick person?

A : Leave him in bed or request him to have some fresh air.

JXXF : Define the class of emission H3E :

A : Radiotelephony - Single sideband full carrier

JYCG : In case a fire alarm is sounded from the bridge, what action would you take as Engineer on Duty?

A : Start the fire pump



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

JYCI : The benefits of emergency response plans are only realized if:

A : the crew carries out the plans

JYJE : You are going to leave a crowded anchorage and make a 180 degrees turn. Your ship has a right handed propeller and you can turn either way. How can you make the turn using as little space as possible?

A : - Rudder hard to port, full astern. After gaining some sternway, rudder hard to starboard and full ahead

JYJE : You are going to leave a crowded anchorage and make a 180 degrees turn. Your ship has a right handed propeller and you can turn either way. How can you make the turn using as little space as possible?

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A : - Rudder hard to port, full astern. After gaining some sternway, rudder hard to starboard and full ahead

JYKY : Which channels are required for the portable two-way VHF's for survival craft?

A : Channel 16 plus another one

JYLQ : What is the maximum floor area that one smoke detector can cover?

A : 74 m²

JYLR : Where would we find information regarding fire extinguishers, fire doors, remote release buttons, fire equipment etc. onboard a ship?

A : On the ship fire plan

JYLS : Which item among those below is included in the normal equipment of every lifeboat ?

A : a radar reflector or a radar transponder

JYMM : Where detectors of a fixed fire detection system are grouped in sections, each of these sections:

A : None of the answers is correct

JYMM : Where detectors of a fixed fire detection system are grouped in sections, each of these sections:

A : None of the answers is good



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

JYNF : Why is it important that a transmitter has been correctly installed at the correct location

A : The control system is depending on the best possible process signal

JYNF : Why is it important that a transmitter has been correctly installed at the correct place

A : The control system is depending on the best possible process signal

JYNH : Which of the following requirements applies to the inert gas system of a tanker?

A : All these requirements apply

JYOE : The main engine is running steady. What is the normal shut down pressure for "Lub.oil inlet to main bearings"?

A : 1,0 Bar

JYPG : Which of the following forms of food poisoning is particularly associated with outbreaks on cruise ships?

A : Norwalk virus

JYQQ : What is the correct temperature when washing bedcovers, sheets and pillowcases of cotton fabric?

A : Up to 90 C

JYQS : Where may as a general rule pressure containers for gas fire-extinguishing medium be kept? (SOLAS II-2/5.1.10)

A : Outside the space which is to be protected

JYTJ : When checking the closed butt gap clearance of new piston rings prior to fitting onto the piston it is normal to try the rings in the liner so that the gap can be measured. From the options given select the best part of the liner to use to carry out these checks.

A : Near the bottom of the liner.

JYWL : By non-reduced transmitting power in VHF is meant in a power between:

A : 6 - 25 watt

JYXI : Earlier cellular reefer vessels were constructed with a porthole system for supplying refrigerated air via ducting to containers. Modern vessels are designed to supply only electrical power to integral containers. Select the main reason for this change in design to the vessels and containers from the options given.

A : The porthole system design was extremely complex and construction costs were high.

JYXX : Which document must a foreign master definitely have before his documents may be considered for public supervision of maritime service?

A : A letter "Exemption from the nationality requirement for foreign shipmasters"



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

KACN : What is the definition of a "Type 2" ship ?

A : A chemical tanker intended to transport cargoes mentioned in IBC/BCH chapter 17 with appreciably severe environmental and safety hazards which require significant preventive measures to preclude an escape of such cargo.

KAGU : Why shall you never pour water into hot fat?

A : The water will explode into steam causing hot fat to be thrown far away thus possibly causing severe burns or fire.

KAJE : The meaning of lapping a valve and valve seat is:

A : Grind the valve against the valve seat to obtain a uniform sealing surface.

KANK : The position of a 1,6 GHz Inmarsat-EPIRB is:

A : given by the EPIRB itself

KAOI : What extra precautions should be taken by the officers and crew if some of the passengers are disabled, i.e. using wheelchair, cane, blind etc.?

A : All passengers that will require extra assistance, also in case of an emergency situation/ evacuation, must be registered in order to allocate crew to assist them if needed.

KAUJ : Under international regulations where must entries be made with regard to the disposal of cargo residues into the sea?

A : In the Garbage record book

KAUJ : Under international regulations where must entries be made with regard to the disposal of cargo residues into the sea from a General Cargo Vessel?

A : In the Garbage record book

KAVO : Which of the following is a halogenated hydrocarbon that can be found onboard existing ships as an extinguishing agent for a fixed system?

A : 1301

KAVR : Which plan shows the position of the vertical and longitudinal centres of gravity for each cargo compartment of a Bulk Carrier?

A : Vessel stability book

KAVW : How much food per person is supplied on a liferaft?

A : Not less than 10000 kJ

KAVX : What causes cargo sweat?

A : Warm and moist air introduced into a cooler cargo hold



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

KAVX : What causes cargo sweat on a Bulk Carrier?

A : Warm and moist air introduced into a cooler cargo hold

KBCO : When a DSC-message of the 'distress' category is received, in order to start distress alert communication in so far as not indicated in the alert by switching (changing) to VHF channel:

A : 16

KBCO : When a DSC-message of the 'distress' category is received, in order to start distress alert communication in so far as not indicated in the alert, you will switch to VHF channel:

A : 16

KBCO : When a DSC-message of the 'distress' category is received, in order to start distress alert communication in so far as not indicated in the alert, you will switch to VNF channel:

A : 16

KBCP : What is meant by a two stage compressor ?

A : Air from stage one goes through discharge valves in stage one and through suction valves into stage two. In stage two it will be compressed to high pressure air.

KBEA : What is the difference between methane and ethane?

A : CBTs cargo tanks are also used for ballast, SBTs are not.

KBEX : When overhauling the cylinder covers on a modern 4-stroke engine, is it important not to interchange inlet and exhaust valves?

A : Important due to different material and working conditions.

KBFN : When should carbon dioxide gas be injected into a cargo hold containing bagged fishmeal?

A : When cargo temperatures exceed 55°C and heating continues

KBGS : What is the only reliable way of checking that the CO₂ cartridge in a dry powder extinguisher is full?

A : Remove the cartridge and weigh it to check that it has the full weight stamped on it

KBJS : Where is the "BRIDGE", in the figure?

A : The Bridge is A, in the figure

KBML : It is noticed that some of the items that were to be used to lift some machinery components during a maintenance routine had not been tested for over 5 years. Which of the options given is the correct action to be taken in a situation like this?

A : Mark the items as not to be used and store them securely until they can be tested by a competent person.



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

KBOH : Where shall you be able to activate the ship security alert system on board ro-ro passenger ships?

A : From the navigation bridge and in at least one other location

KBVS : Which one of the listed requirements regarding the launching and recovery arrangements for survival crafts do not correspond to present regulations?
(S O L A S
I I I / 1 5)

A : Only one type of launching and recovery arrangements shall be used for similar survival crafts onboard the ship

KBXK : If requested by a coastal radio station to participate in a rescue operation, what is the most important information you may give?

A : Your position, name, call sign and speed

KBYD : Are membrane tanks self supporting as the independent tanks?

A : Membrane tanks are not self-supporting

KCAW : Maintenance of lifeboats and davit arrangements is routine work onboard. Why should you not carry out this type of work alone?

A : There might be a risk of falling even though harness and lifeline is used. A second person should always stand by to assist with tools etc. and other practical arrangements.

KCCQ : The impedance of a coax cable for the VHF-set depends on:

A : the structure dimensions and the material of the coax cable

KCQT : If abnormal vibration occurs, what will You do?

A : Stop the purifier immediately, and make sure the oil is being feed to the bowl.

KCRF : In accommodation spaces, where must manually operated call points be located?

A : At exits and in corridors

KCRJ : What is the purpose of a painter?

A : To keep the lifeboat in an accurate position close to the vessel

KCSI : At what temperature would you expect to carry a fully refrigerated cargo of ammonia?

A : - 33° C

KCTC : The smoke detector (fire indicator) indicates fire in a cargo hold loaded by general cargo. What first action should be taken?

A : Close the ventilation system and other openings to the hold in order to choke the fire



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

KCTK : On a General Cargo Vessel cargo is be secured using turnbuckles (bottlescrews) and wires; what is the minimum number of bulldog grips that should be used to attach wires to turnbuckles ?

A : A minimum of three

KCWG : Where do you load dangerous goods?

A : Dangerous goods shall only be loaded in designated ares on the ro-ro deck

KDAD : On a Container vessel, what is the function of a buttress?

A : To support container stacks in a non-cellular cargo hold

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A : To support container stacks in a non-cellular cargo hold

KDAE : Under international regulations where must entries be made with regard to the disposal of bulk cargo residues into the sea?

A : In the Garbage record book

KDAE : Under international regulations where must entries be made with regard to the disposal of cargo residues into the sea?

A : In the Garbage record book

KDBI : During a bomb search, which of the following is an important principle to follow?

A : Do not touch any suspicious packages

KDBW : Which of the following is an international requirement?

A : Securing of cargoes must be completed before a ship leaves the berth

KDDQ : On a ro-ro vessel, which of these situations will result in an emergency shutdown of cargo operations?

A : The vessel developing a sudden and unexpected list

KDDQ : On a RoRo vessel, which of these situations will result in an emergency shutdown of cargo operations?

A : Any of the listed situations

KDDQ : Which of these situations will not result in an emergency shutdown of cargo operations?

A : Failure of the hold ventilation system



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

KDFS : A cargo of chilled meat is being loaded into the cargo space of a reefer vessel and the stow will extend 3.5 metres upwards into the coaming in way of the hatch square. Select, from the options given, the best method to adopt to achieve satisfactory carriage of this cargo.

A : Construct a false deck made of pallets to reduce the load on the lower tiers.

KDHS : What would happen if a ship's frames became partly detached from the side shell plating?

A : There would be additional loads on the adjacent frames leading to possible shell plating failure

KDID : What is the masters position if he is asked to load a container that is incorrectly manifested, but which is believed to contain dangerous goods, about which insufficient information is supplied?

A : He has the authority to refuse it.

KDJK : What is the benefit of using prismatic Type "B" tanks?

A : The benefit of maximising ship hull volumetric and having the entire cargo tank placed beneath the main deck.

KDJK : What is the benefit of using prismatic Type "B" tanks for gas carrier cargo containment systems?

A : They have the benefit of maximising ship hull volumetric efficiency and also allow the entire cargo tank to be placed beneath the main deck.

KDJK : What is the benefit of using prismatic Type "B" tanks for LNG carrier cargo containment systems?

A : They have the benefit of maximising ship hull volumetric efficiency and also allow the entire cargo tank to be placed beneath the main deck.

KDMG : Where do you find minimum drill requirements?

A : In the SOLAS convention.

KDOB : Your engine is going astern and you pick up sternway. The rudder is midships, and you are operating on a single, right-handed fixed screw. How will your ship react?

A : She will most likely change heading to starboard

KDOP : The use of a chemical additive to induce a chemical reaction and so expedite the cleaning of a cargo tank is a common operational technique. What is the chemical term for the substance used in such a procedure?

A : Catalyst.

KDOP : The use of a chemical additive to induce a chemical reaction and so expedite the cleaning of a cargo tank on a chemical tanker is a common operational technique. What is the chemical term for the substance used in such a procedure?

A : Catalyst.

KDOW : Give the meaning of the following symbol

A : Release gripes



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

KDRA : What type of sugar is commonly added to sweeten tea or coffee?

A : Granulated.

KDSY : What is the general emergency alarm signal to be sounded by the ships whistle and alarm bells in case of an emergency situation?

A : Seven short blasts followed by one prolonged blast

KDYY : How is the basic safety manning determined?

A : The Norwegian Maritime Directorate determines the basic safety manning after an evaluation which includes, inter alia, job specifications and qualification requirements.

KEAK : Which class of emission is used for FEC NBDP transmissions ?

A : F1B

KEAO : How much liferaft capacity should be provided on a conventional cargo ship of more than 85 meters in length, built after July 1986?

A : 100% of the complement if it can be readily launched on either side of the ship. If it cannot be readily launched on either side, 100% must be provided on each side

KECH : What kind of permits have to be obtained before starting cold work in tanks?

A : Cold work permit + Permit for entry .

KECP : What is another term for 'Cargo Sweepings'?

A : Dry cargo residues

KEGJ : In calculating the amount of an oil cargo, if you start with the Total Observed Volume (TOV), then deduct any measurable quantities in the tanks prior to loading and the volume of any free water found, what figure are you left with?

A : GOV (gross observed volume).

KEGO : This vessel is encountered at the mouth of a river which leads to your discharge port. What do the various shapes tell you?

A : Vessel engaged in dredging or underwater operations, indicating that you should pass on the dredgers port side

KEJN : The sign on the image indicates:

A : Location of lifebuoy with self-igniting light and self-activated smoke signal

KEJU : If you are to use a newly installed mechanical pilot hoist arrangement to pick up a pilot:

A : It is necessary to have a pilot ladder rigged and reaching from deck to the waterline, next to the pilot hoist.



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

KEKK : In the situation shown, the bow of your ship is pushed away from the bank. How can you handle this?

A : The heading should be carefully monitored, some port rudder may be required to start the swing, though starboard rudder may be required to balance any bank rejection.

KEKK : In the situation shown, the bow of your ship is pushed away from the bank. How can you handle this?

A : Give starboard rudder in order to balance the force of the bank effect and rudder effect

KEKN : Give the meaning of the following symbol

A : Fasten seat belts

KEKU : An inflatable liferaft accommodating 12 persons is fitted with:

A : 2 entrances among which one is fitted with a semi-rigid boarding ramp

KELH : In chemical tankers, to avoid having a deteriorating effect on cargoes and also to avoid cargoes attacking them, steam heating coil are generally made of:

A : Stainless steel?

KELO : When loading bulk liquid cargo, what is the first action you should take if a cargo valve jammed open?

A : Order the dock man to shut down.

KEMH : What is the adequate marking of liferafts for passenger ships on short international voyages?

A : SOLAS B PACK

KENW : How many digits are there in a MMSI number?

A : Nine.

KEPR : VHF channel 17 is used for:

A : Intra-ship traffic

KEQG : On a Container vessel, when will a lashing plate crack or buckle?

A : When the lashings and plate are not in the same plane

KEQG : When will a lashing plate crack or buckle?

A : When the lashings and plate are not in the same plane



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

KERH : Modern cellular container vessels which carry refrigerated cargo below deck mainly maintain an acceptable temperature in the cargo holds by which of the features given in the options?

A : By using powerful mechanical fans to achieve a large number of air changes.

KESU : The main buoyancy chamber of an inflatable liferaft must be divided into:

A : 2 compartments

KEUN : In a fuel oil separator liquid flows out through bowl casing drain and/or sludge outlet. What is the reason to this?

A : Any of the others.

KEVJ : A 6-men inflatable liferaft shall be carried as far forward as is reasonable and practicable. Where is the best stowing position?

A : Under the forecastle.

KFAI : How will continuous low load operation influence the service interval of the cylinder covers on a 4-stroke engine?

A : Reduce the service interval

KFAI : How will continuous low load operation influence the time between overhauls, tbo, for the cylinder covers and associated valves of a 4-stroke diesel engine?

A : Reduce the service interval

KFBJ : A frequency is measured in :

A : Hertz

KFCD : For a Nitrate based cooling water treatment system, what would you consider to be the normal operating limits?

A : 1500-3000 ppm Nitrite.

KFCD : For a Nitrate based cooling water treatment system, what would you consider to be the normal operating limits?

A : 1000-2000 PPM Nitrate.

KFCI : Which of the following would normally only be found in cargo holds which can also be used for ballast on a Bulk Carrier?

A : Sacrificial anodes and water resistant epoxy paint coatings

KFDP : What do you understand by: Let go the port anchor?

A : Let go the port anchor means: open the port windlass brake



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

KFEN : On a RoRo vessel, what should you do if it is clear a RoRo cargo units content is not have properly secured

A : Reject the unit and do not allow it to be loaded

KFEN : What danger is associated with heated fuel oil tanks vis-a-vis the carriage of ro-ro units?

A : Tyres may be damaged

KFGL : Which of the following letter combinations represents a flow indicating controller on a process and instrumentation diagram

A : FIC

KFGL : Which of the following letter combinations represents a flow indicating controller on a process and instrumentation diagramv

A : FIC

KFHC : Who is responsible for lifting equipment, such as: Strops - Slings - Pallets?

A : The vessel?

KFMA : When loading stores in a tropical harbour on sunny days, which of the following categories of provisions would you arrange to get out of the sun as soon as possible?

A : Eggs

KFMF : Which of the following answers would best define the term "risk"?

A : Risk involves both identification of the occurrence and the likelihood that it will happen

KFMF : Which of the following answers would best define the term "risk"?

A : - Risk is a situation involving exposure to danger and includes both identification of the occurrence and the likelihood that it will happen.

KFMS : How is 'Allowable Use Strength' (AUS) calculated, for applying cargo lashings in the transverse direction?

A : Transverse accelerations, taken from the Cargo Stowage and Security (CSS) Code, divided by 7 multiplied by weight of cargo item

KFMS : How would you calculate the total required 'Allowable Use Strength' (AUS) for cargo lashings in the transverse direction?

A : Divide the transverse accelerations, taken from the Cargo Stowage and Security (CSS) Code, by 7 multiplied by the weight of the cargo item

KFMY : When installing a new water gauge glass you should secure the bolts from

A : Center, alternately towards each end



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

KFPB : What do Tonnes per Centimeter immersion (TPC), Moment to Change Trim by one Centimeter (MCTC) and Longitudinal Centre of Floatation (LCF) have in common?

A : They remain unaffected by changes in displacement

KFPB : When loading general cargo in the hold and in the Tween deck of a general cargo ship, what is one of the main considerations with reference to the stability of the ship?

A : The height of the ships Centre of Gravity and the size of the GM

KFQH : With reference to using centrifuges for cleaning fuel and lubricating oil what is the difference between a purifier and a clarifier.

A : In a clarifier only solids are removed from the oil, whereas in a purifier both solids and

KFQH : With reference to using centrifuges for cleaning fuel and lubricating oil what is the difference between a purifier and a clarifier.

A : In a clarifier solids are removed from oil, whereas in a purifier solids and water are removed from oil

KFQI : Which of the following measures should rather be considered as a prevention measure than as a protection measure?

A : Restriction in the usage of combustible materials

KFTI : The temperature of chilled air is monitored after it has passed through a refrigerated cargo and the temperature noted. This temperature is often referred to as the RAT. Which of the given options does RAT stand for in relation to refrigeration of a cargo?

A : Return Air Temperature.

KFTT : With reference to non-VIT diesel engine high pressure fuel pumps that have helix control, how is the timing of fuel injection normally adjusted?

A : By raising or lowering the pump plunger relative to the pump barrel

KFTT : With reference to non-VIT diesel engine high pressure fuel pumps that have helix control, how is the timing of fuel injection normally adjusted?

A : The edge on the plunger which opens for the return line

KGBF : What is the main raw ingredient used to produce margarine?

A : Vegetable oil and cooking oil

KGBM : Representative of the port authorities should always receive the best possible treatment:

A : For ships clearance to take place quickly and without complications

KGCY : From the options given, select the type of cleaner that is most suitable for washing down a refrigerated cargo space.

A : An odourless cleaner.



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

KGEGQ : Where do you load dangerous goods on ro-ro/car decks?

A : Dangerous goods shall only be loaded in designated areas on the ro-ro deck

KGFM : On a container vessel, what indicates the correct weight of a wrongly declared container?

A : Strain gauges fitted to the shore gantry cranes

KGFM : What indicates the correct weight of a wrongly declared container?

A : Strain gauges fitted to the shore gantry cranes

KGGH : A general cargo vessel is loading to summer loadline marks; where should be the final level of water ?

A : The top of the summer loadline mark

KGIV : On a Container vessel, what would you do if you saw a container being damaged during loading operations?

A : Note the date and time of occurrence, container number and if possible take photographs

KGIV : What would you do if you saw a container being damaged during loading operations?

A : Note the date and time of occurrence, container number and if possible take photographs

KGJR : What is the ISM Code?

A : The ISM Code is an international management code for the safe operation and for pollution prevention (International Safety Management (ISM) Code).

KGMX : What is the purpose of the Ship Security Plan?

A : Protect your ship from risks posed by security threats or incidents

KGQE : If during a safety officers inspection he found, what was considered to be an unsafe practice, what actions would he take

A : If the work could result in a serious injury, the work should be stopped immediately, and the master informed, then improved control methods put in place- otherwise personnel involved informed and alternative work methods employed

KGTH : Give the meaning of the following symbol

A : Primary means of escape

KGTP : Radio signals in the HF channels propagate mainly:

A : through hops between the ionised layers and the earth



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

KGJY : How often do you have to certify cargo hoses?

A : Every 12 month

KHAB : The operation of a diesel engine is controlled by a mechanical-hydraulic, compensated speed sensing governor. How will the governor control be affected if the compensation needle valve is closed in and the engine load changes?

A : Engine speed control will be sluggish.

KHBC : Which provisions generally speaking govern the rights and duties of the employee and employer on NIS ships?

A : Norwegian Seamen's Act, NIS Act

KHBI : If a vessel's Moment to Change Trim by one Centimeter (MCTC) is 196 in saltwater, what would be her MCTC in water of density 1.015 T/m³?

A : 194.087

KHBI : What is one of the most important considerations when loading a full cargo of bulk grain in a general cargo ship?

A : Cargo settling down and subsequently shifting

KHFL : What is the name of this unit?

A : A hydrostatic release unit

KHFL : What is this?

A : A hydrostatic release unit

KHHS : Which of the following detailed explanations should be mentioned in the Training Manual ?

A : The illumination in launching areas

KHJK : How is a cargo tank on a gas carrier secured against to be overfilled?

A : In the cargo tank there is a float on 99% filling that will give an alarm then close the loading valve to the tank when liquid reach the float

KHPI : New MARPOL regulations came into effect from July 93 stating that the oily water separator which was previously certified for 100 ppm be changed to :

A : 15 ppm

KHPK : When you are going to take bunker oil, it is important to know what space is available in your tanks, and to do a safe bunker operation. What will you prefer?

A : Do a complete sounding of all bunker tanks



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

KHRP : Give the meaning of the following symbol

A : International shore connection

KHRV : The ship-shore HF-telephone-channel 2228 consists of the frequencies 22081.0 kHz and 22777.0 kHz. In case of manual operation, one should tune the receiver on:

A : 22777.0 kHz

KHSQ : In an inert gas system audible and visible alarms shall be provided to indicate faulty conditions in the installation. Which of the following conditions do not activate the alarms? (SOLAS)

A : High air pressure in water seal

KHSQ : In an inert gas system audible and visible alarms shall be provided to indicate faulty conditions in the installation. Which of the following conditions do not activate the alarms? (SOLAS II-2/62.19.1)

A : High air pressure in water seal

KHTO : Which spaces, in regard to fire protection, shall be separated from the rest of the ship by thermal and structural boundaries? (SOLAS II-2/2.2.2)

A : Accommodation

KHTU : Many modern boiler burners operate with automatic modulating combustion control? Which of the following is necessary to ensure high efficiency and low emissions throughout the load range with this type of operating control?

A : High turndown ratio for the burner.

KHVA : What is the normal procedure for safe operation when one of the main engine fuel pumps is to be put out of action?

A : Reduce main engine setting to stop

KHWA : For which emergency resource is it difficult to plan the best use?

A : passengers

KHWQ : During inspection of the crank bearing for one of the units in the main engine, the bearing shell was found as follows: Surface of the white metal was black and very hard. Patches of black incrustations have worn grooves in the journal. What is the likely cause of this condition?

A : Water in the lubricating oil during service

KHWQ : During inspection of the crank bearing for one of the units in the main engine, the bearing shell was found as follows: Surface of the white metal was black and very hard. Patches of black incrustations have worn grooves in the journal. What was the cause?

A : Water in the lubricating oil during service

KHWS : The presence of a VHF-installation is primarily intended to:

A : enhance the safety of lives at sea



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

KHWX : What should be possible to do in cofferdams and ballast tanks surrounding a cargo tank planned to carry Propylene Oxide ?

A : It should be possible to inert and maintain a O2 content of less than 2 %.

KIBJX : What should be possible to do in cofferdams and ballast tanks surrounding a cargo tank planned to carry Propylene Oxide ?

A : It should be possible to inert and maintain a O2 content of less than 2 %.

KIBJ : What applies to the carriage of timer deck cargoes?

A : All

KIBJ : What does not apply to the carriage of timer deck cargoes?

A : The International Tonnage Convention

KIBJ : What does not apply to the carriage of timer deck cargoes on a General Cargo Vessel?

A : The International Tonnage Convention

KICL : On chemical tankers, where dangers of both flammable & toxic gases exist, instruments to detect these shall be provided. If portable equipment is provided, you shall have:

A : At least two sets of instruments to detect each type of gas expected to be encountered?

KIGP : Where are cargo residues usually concealed?

A : In recesses below manhole covers

KIGP : Where are cargo residues usually concealed on a General Cargo Vessel?

A : In recesses below manhole covers

KIKI : It is late night and a tanker has just been involved in a collision. Should the tanker, prior to the collision, carry a red light in addition to the normal navigation lights. Is this correct?

A : No, the tanker should show the normal navigation lights only

KILB : What would be the most probable cause of the exhaust gas temperature from one cylinder of a diesel engine being lower than normal?

A : The opening pressure for the injection valve for the cylinder is set too high.

KILB : What would be the most probable cause of the exhaust gas temperature from one cylinder of a diesel engine being lower than normal?

A : Injection valve has too high opening pressure.



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

KILB : What would be the most probable cause of too low exhaust gas temperature from one cylinder?

A : Injection valve has too high opening pressure.

KILB : What would be the most probable cause of too low exhaust gas temperature from one cylinder?

A : The opening pressure for the injection valve for the cylinder is set too high.

KILD : Unconscious casualties who are breathing and whose hearts are beating should be placed in the Recovery Position. What is the Recovery Position?

A : As shown in figure 1.

KIMW : Give the meaning of the following symbol

A : Rocket parachute flares

KINP : What do logs, fishmeal, scrap metal and bales of cotton have in common?

A : They are all capable of causing oxygen depletion in the cargo holds

KINP : When loading a General Cargo ship, what do logs, fishmeal, scrap metal and bales of cotton have in common?

A : They are all capable of causing oxygen depletion in the cargo holds

KIOJ : The Inmarsat-satellites are located:

A : above the equator

KIQX : You have abandoned ship in a liferaft. In most cases, which of the following actions should you generally take?

A : Organise a lookout system. Join up with other survival craft if possible. Stream the sea anchor

KIVV : The threads on the drain plug for the bronze end cover of a sea water cooled heat exchanger have been badly damaged during maintenance. There is no spare brass plug available. What is the best solution for repairing the heat exchanger?

A : Make a new brass plug on the lathe to fit the drain hole.

KIXJ : What is the definition of "dew point" of a vapour mixture?

A : The dew point is the temperature at which the water vapour begins to condense as the temperature decreases.

KIXJ : When preparing the cargo tanks of an LNG carrier for loading it is important to consider the dew point of the vapour mixtures present in the tank. What is the definition of the "dew point" of a vapour mixture containing water vapour?

A : The dew point is the temperature at which the water vapour begins to condense as the temperature decreases.



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

KIXP : What is supervision of maritime service of seafarers?

A : Control by the master/employer and public supervisory authority that the requirements of law or agreement concerning the employee's service on board are satisfied.

KIXV : The ships crew are carrying out maintenance on the weather deck hatch lids of a refrigerated cargo space. Which of the parts given in the options will have the greatest influence on maintaining cargo temperature in relation to the hatch lid system?

A : The condition of the hatch lid seals.

KJFY : When a sudden increase in pressure occurs in a forced lubrication system, you should check for:

A : Loss of supply to one of the bearings.

KJIF : What measures regarding ship stability should be taken in order to make passenger ships able to withstand critical damage?

A : Maintain sufficient intact stability

KJIN : Besides the official language of registration, what language is used in the fire control plans and booklets?

A : English or French

KJJK : Which one of the listed requirements regarding immersion suits do not correspond to present regulations? The immersion suit shall be made of waterproof materials and constructed such that:

A : it will have sufficient built in buoyancy to avoid the use of a lifejacket

KJPW : Which one of the listed requirements regarding inflatable liferafts corresponds to present regulations? Every liferaft shall be so constructed that:

A : it can be dropped from a height of maximum 18 metres

KJSK : Describe the process of closing the Crew Agreement

A : Each crew member signs in part b of the applicable crew agreement and the master or deputy signs in part c below the signature of the seamen. The discharge book is signed by the master and given to the seaman. An entry is made in the official log book and

KJUA : Emergency instructions in appropriate languages shall be posted in passenger cabins. What information shall as a minimum be included in the emergency instructions?

A : The method of donning life-jackets, escape routes and alarm signals

KJXL : After discharging acids, i.e sulphuric acid, what is the correct procedure ?

A : Add some m³ of cold water, preferably freshwater into the tank at high speed without pumping out in order to avoid heat reaction.

KJXP : On a fire patrol at night you see smoke coming from a closed cabin door. What action should you take first?

A : Activate the nearest fire alarm button and advise bridge of the location of the fire.



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

KKAF : From the options given, select the main reason why conventional mercury thermometers should not be used for taking pulp readings of a fruit cargo on a reefer vessel.

A : The mercury may contaminate the fruit if the thermometer is broken while taking the readings.

KKDD : Most frequent volumes for only one air bottle of a standard self-contained breathing apparatus are

A : 6 and 7 litres

KKDT : What could result from an experienced bulk carrier master loading containers that shifted en route?

A : The vessel could be deemed unseaworthy due to the master's inexperience with carrying containers

KKEX : Why shall you never pour water into hot fat?

A : The water will explode into steam causing hot fat to be thrown far away thus possibly causing severe burns or fire.

KKFP : At what temperature do the sprinklers come into operation in accommodation and service spaces ?

A : Within 68 °C to 79 °C

KKFS : Automatic shutdown of the inert gas blowers and gas regulating valve shall be arranged in case of faulty condition in the inert gas system. Which of the following conditions has not correct value (high/low) in relation to automatic stop according to present regulations?

A : High water level in the water seal

KKHF : The diode shown performs which function?

A : Return inductive current to supply at switch off.

KKHQ : Several cargoes require determination of pH values (acidity) which is often a measure of quality or degradation of cargo such as animal or vegetable oil during transport. A neutral solution has a pH value of:

A : 7

KKID : Which of the following cuts of beef is taken from the shoulder?

A : Rump.

KKID : Which of the following cuts of meat does not come from a leg of beef?

A : Rump.

KKNI : What kind of cleaning product would you use to remove rust and ruststains in the accommodation?

A : Strong acidic solution.



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

KKQL : Why are cargo hold bilges washed with chloride of lime?

A : To disinfect the bilges and remove odours

KKQL : Why are the cargo hold bilges of General Cargo ships washed with chloride of lime?

A : To disinfect the bilges and remove odours

KKSE : How can you avoid and/or reduce potential panic among passengers, if an emergency situation occurs?

A : Inform passengers at frequent intervals over the public announcement system about the situation and how they shall act. Use as many of the ships officers and crew among the passengers to assist

KKSN : On a General Cargo Vessel the Tonnes per Centimetre (TPC) of a vessel is 30; the present mean draught of the vessel is 6.90 m and the maximum summer load draught is 7.00m; Calculate the amount of cargo that can still be loaded?

A : The amount of cargo that can still be loaded is 300 tonnes

KKTN : Hydrogen Sulphide in crude oil and certain other oil products is most obviously associated with problems of vapour inhalation, but which of the following is also a serious problem associated with this component, particularly in high concentrations?

A : Corrosion.

KKXI : For gauging tanks (from ullage ports) that are being loaded with static accumulator cargoes, you may, at any time during the loading use:

A : Ropes made of natural fibres, such as manila or cotton with non-metallic, non-conductive equipment at the lower end?

KLAP : What is the meaning of "Make Fast"?

A : To secure the rope.

KLAT : What alarm signal is to be sounded by the alarm bells in case of fire onboard ships?

A : Series of short blasts

KLDY : A pilot ladder shall, to prevent twisting, be fitted with battens. The lowest batten shall be the 5th step from the lower end of the pilot ladder. At what intervals should there be further battens upwards on the pilot ladder?

A : At intervals not exceeding 9 steps.

KLEA : You are to load a cargo of Cyclohexanol to tanks 2, 3 and 4 centre and 2 and 4 wing tanks. The lines to these tanks are all connected at the manifold with flexible hoses and are all capable of being isolated with the exception of 2 centre, which has therefore been designated as the last tank to load. What will you do with the other tanks as they complete loading?

A : Close the appropriate manifold cross-over valves and tank loading valves as each tank finishes. Continue to monitor the cargo levels in the finished tanks to ensure that the valves are not pa

KLHX : On a Container vessel, what does OSHA stand for?

A : Occupational Safety and Health Administration



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

KLHX : What does OSHA stand for?

A : Occupational Safety and Health Administration

KLJY : Over a period of a few hours of operation the main diesel engine speed gradually falls off. From the options given what is the most likely cause of this fault?

A : Clogged turbocharger filters.

KLOA : Master of every ship must provide:

A : A link between the shipboard training officer and the company training officer ashore

KLOY : Which one of the following is a limitation on the use of chemical powders?

A : All of the answers are good

KLRW : What action should be taken by the Officer of the Watch in the event of fire being reported to the bridge during the 00.00 to 04.00 watch?

A : Sound the Fire Alarm

KLSC : A Category "B" Chemical Cargo which has a melting point of more than 15° C. can be carried:

A : In tanks not adjacent to the ship's shell plating having heating coils?

KLTB : What is "DRAUGHT", in the figure?

A : Draught is indicated by D, in the figure

KLWF : The training manual shall contain instructions and information in easily understood terms and illustrated wherever possible. Which of the following objects do not have to be explained in detail in the manual according to present regulations?

A : Instruction for emergency repair of fire-fighting equipment

KLXP : What are the limitations of Cargo Securing Manuals?

A : They are developed whilst ships are still under construction and may therefore be unsuitable under certain operational conditions

KLYW : Who is the responsible person for the safety of the ship and all those onboard?

A : The Master

KMAT : Define the class of emission G3E :

A : Radiotelephony - Phase modulation



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

KMBN : What is the purpose of a hatch cover ventilator grill?

A : To prevent sparks entering the cargo hold

KMBN : What is the purpose of a hatch cover ventilator grill on a General Cargo vessel?

A : To prevent sparks entering the cargo hold

KMGN : During mooring operations which is the safe place to be in?

A : Outside the colored zone.

KMGW : A vessel such as a parcel chemical tanker, with an high inbuilt level of subdivision will typically not have a problem with which particular feature of stability which will need to be accounted for on other tankers that have large, unrestricted tanks?

A : Free Surface Effect.

KMHO : What is the main purpose of gassing up the cargo tanks of an LNG carrier?

A : To remove IG tank atmosphere with warm cargo vapour prior to loading the cargo.

KMHO : What is the purpose of "gassing up" cargo tanks?

A : To remove IG tank atmosphere with warm methane vapour.

KMJW : Which of the following pumps will be damaged if the discharge valve is closed before the motor is stopped?

A : Gear pump

KMJY : In a purifier assuming the separating temperature is correct, what is probably wrong if processed oil contains water

A : Gravity disc is too small. Flow rate is too high

KMMG : When is track line search normally used?

A : When a vessel or aircraft has disappeared without a trace

KMOT : Give the meaning of the following symbol

A : CO2 horn

KMRE : What does it mean "to take the ullage"?

A : To measure the distance from the deck or tank cover measuring point to the liquid level in a tank.



KMRH : What is the purpose of fixed stacking cones?

A : To lock 20'containers in 40' cell guides

KMTS : What should be observed concerning the vessels stress?

A : Distribution and weight of the containers?

KMVP : The pressure in a flexible hose must be set up

A : After it has been laid down

KMWH : What does ISM stand for?

A : The International Management Code for the Safe Operation of Ships and for Pollution Prevention

KNAY : Which of the following oil products is particularly associated with the danger of contracting leukaemia through exposure to its vapours?

A : Benzene

KNDQ : What are the employers duties in respect to personal protective equipment

A : They must ensure that workers are provided with suitable protective clothing where it is needed

KNER : How can you avoid and/or reduce potential panic among passengers, if a dangerous situation occur?

A : Inform passengers at frequent intervals over the public announcement system about the situation and how they shall act. Use as many of the ships officers and crew among the passengers to assist.

KNEU : Inert gas drawn from an in-line unit in the main or auxiliary boiler exhaust cannot normally be used in a chemical tanker carrying high-spec products. Why is this?

A : Because the levels of hydrocarbons and suspended soot particles will have a significant negative impact on cargo quality and tank cleanliness.

KNLD : Why is it important that all the system valves are closed after completing bilge or ballast pumping operations?

A : For safety reasons, otherwise seawater could enter the engine room.

KNME : Emergency position-indicating radio beacons (EPIRB) to be carried in survival craft shall provide transmissions to enable aircrafts to locate the survival craft. Which one of the listed requirements to radio beacons do not correspond to present regulations? Emergency position-indicating radio beacons shall:

A : be automatically activated when floating in water

KNNW : During the ship to ship cargo transfer operation if any considerable amount of oil is spilt and trapped between both ships, where risk of ignition due to incendive sparks caused by metal to metal contact, such as fender support steel nets/chains and shipside do exist, you should:

A : Cover the spillage with a layer of foam.



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

KNOQ : What is the difference between an independent tank type A and independent tank type C

A : Independent tank type A need secondary barrier

KNOX : Which one of the listed requirements regarding thermal protective aids do not correspond to present regulations? The thermal protective aids shall:

A : permit the wearer to swim a short distance through the water and board a survival craft

KNPO : On average, how much filter-ground coffee would you need for a crew of 20 filipinos and 10 norwegians for six months?

A : 180 kg

KNRL : A bulk cargo is loaded and the shore cargo figure is 10 000 tonnes; the chief officer calculates 9 500 tonnes have been loaded; what should the Master do?

A : Ask for a draft survey to be carried in the presence of P& I Club representative

KNSC : The Muster List shall show the duties assigned to members of the crew. Which of the following duties shall be included according to present regulations?

A : Preparation of survival crafts' Emergency Position Indicating Radio Beacons (EPIRRB).

KNTU : Which one among the following information shall be marked on the container of an inflatable liferaft:

A : length of painter

KNUT : Refrigerated compartments are usually fitted with two types of thermometer - those designed for indicating air temperature and those designed for indicating pulp temperatures. When a fruit cargo is being loaded which of the given options represents the best location for a pulp thermometer to be placed?

A : Between two cartons in the middle of the stow.

KOES : Your vessel is equipped with hydraulic submerged deep-well cargo pumps. You are approaching the end of discharge of a cargo of methanol in tank 3 port. Which of the following may be an indication that the tank is almost empty?

A : A distinctive surging noise from, and vibration observed on the cargo pump.

KOFM : How many lifejackets are required in a passenger cabin?

A : Same number as beds in the cabin

KOHT : The Training Manual shall contain instructions and information on the life-saving appliances and the best method of survival. Which of following detailed explanations of crew duties in relation to emergency situations shall be contained therein?

A : Best use of the survival craft facilities in order to survive

KOHY : Among working conditions listed below which one is required for every propulsion engine of lifeboats?

A : Not less than 5 min after starting from cold with the lifeboat out of the water



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

KOIR : What is the purpose of the alternator reverse power trip?

A : To prevent the alternator from "motoring" by being supplied power from other parallel alternator

KOIR : What is the purpose of the alternator reverse power trip?

A : To prevent the alternator from "motoring" by being supplied power from other parallel

KOLC : The output pressure of a diesel engine lubricating oil pump is regulated by:

A : A relief valve.

KOLE : For a person whose hours are not divided into watches, the regular working hours on board a NIS-ship shall be between:

A : 0600 - 1700 hrs

KONU : Which item among those below is included in the normal equipment of every lifeboat ?

A : an operational compass provided with a binnacle

KOQG : Does the seafarer have a right to leave service on board for spacial reasons?

A : Yes, if the ship, for example, is not in a seaworthy condition for the voyage and the master fails to take steps to remedy the defects

KOQG : Does the seafarer have a right to leave service on board for special reasons?

A : Yes, if the ship, for example, is not in a seaworthy condition for the voyage and the master fails to take steps to remedy the defects

KOSO : When discussing ther chemistry of petroleum cargoes, if Alkanes are saturated hydrocarbons, what are unsaturated hydrocarbons?

A : Alkenes.

KOSX : Tank venting systems on chemical tankers should be designed and operated so as to ensure neither pressure nor vacuum created in cargo tanks during loading or discharging exceeds tank design parameters. A certain rate of generation of vapour during loading, sometimes termed gas evolution, is assumed. According to the IBC Code, how is this calculated?

A : The maximum loading rate is multiplied by a factor of at least 1.25

KOSX : Tank venting systems should be designed and operated so as to ensure neither pressure nor vacuum created in cargo tanks during loading or discharging exceeds tank design parameters. A certain rate of generation of vapour during loading, sometimes termed gas evolution, is assumed. According to the IBC Code, how is that calculated?

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CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

KOTO : When is it necessary to seal a CO2 injection line into the designated ballast hold?

A : Prior to ballasting the hold

KOTO : When is it necessary to seal a CO2 injection line into the designated ballast hold of a Bulk Carrier?

A : Prior to ballasting the hold

KOWD : Three earth lamps indicate - bright - bright - dark. Which of the following is indicated by this condition?

A : No faults on the system but a failed lamp

KOWW :What will you bring in a lifeboat if the ship is abandoned?

A : Warm clothes, blankets and lifejackets

KPCA : Which one of the listed tasks do not necessarily have to be included in onboard training and instruction of crew members? (SOLAS III/18.4 - 18.5)

A : Onboard training and instruction shall be given in addition to regular abandon ship drills

KPCW : What type of lubricating oils are generally used in auxiliary engines?

A : Detergent.

KPEP : What is the meaning of this symbol:

A : muster station

KPFD : Spray painting has been carried out in the engine room while the engine was running, and the turbocharger intake filter was not protected. Which one of the options given is most likely to result from this?

A : Exhaust gas temperatures are higher than normal

KPFD : Spray painting has been carried out in the engine room while the engine was running, and the turbocharger was not protected. This could be the cause of one of the following:

A : Exhaust gas temperatures are higher than normal

KPFD : Spray painting has been carried out in the engine room while the engine was running, and the turbocharger was not protected. Which one of the options given is most likely to result from this?

A : Exhaust gas temperatures are higher than normal

KPGF : When a changeover from HFO to diesel oil is going to take place, we want this to be carried out as follows:

A : slow to get slow cooling.



KPQN : What is the principal ingredient in Risotto?

A : Rice.

KPRO : Why do the cargo holds of a self-unloading bulk carrier have a 'W' shaped cross section?

A : So that during discharge the cargo will automatically fall onto the underlying conveyor belts

KQAB : An International oil pollution prevention certificate is required for:

A : Oil tankers 150 gross tons or more

KQAG : On the figure 4 possible definitions of the term "HEAD LINE" are given. Which one is the correct one?

A : Head line is given by B on the figure

KQAX : What is the situation of this vessel?

A : Vessel aground

KQBB : What is the objective of the international merchant fleet?

A : To meet the requirements of goods to be transported

KQBV : What daylight identification signal letter (from international code) is the CSS (Co-ordination Surface Search) vessel showing?

A : FR

KQBY : Why are we blowing the engine before start (slow turning on air) ?

A : To be sure that we do not have water collected in the cylinders.

KQCA : Which of the following actions will be the most effective means for preventing fire in a cabin?

A : Provide clear warning that persons must not smoke in bed

KQCR : Give the meaning of the following symbol

A : Survival craft portable radio

KQDQ : The prescribed periodic tests of the radio set must be entered in:

A : radio log or ship's log



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

KQEI : You are the Sen.Off.Deck of a vessel involved in a collision. All necessary actions to ensure safety of crew and vessel has been taken. What shall you then tell the Sen.Off.Deck on the other vessel?

A : Name and Port of registry of your vessel.

KQEI : You are the Sen.Off.Deck of a vessel involved in a collision. All necessary actions to ensure safety of crew and vessel has been taken. What shall you then tell the Sen.Off.Deck on the other vessel?

A : - Name

KQIN : All closing arrangements, stowing of cargo etc. are subject to regulations by the Norwegian Maritime Directorate (NMD). Which of the following requirements regarding hatches, hatch covers etc. corresponds to present regulations? (NSCL 4/10.1.8 - 10.1.10)

A : The deck cargo shall be stowed so that navigation and manoeuvring is not hampered.

KQNQ : During discharging of crude oil the inert gas system fails totally. Should you:

A : Stop all cargo operations and close the deck IG line isolating valve

KQSM : Which routine procedures should be carried out before cold work commences?

A : Carry out procedures to instructions for cold work including filling in forms and having them signed.

KQUB : An important quantity which is useful in circuit analysis is known as conductance G (Siemens). Which of the formulas A to D expresses the conductance for this circuit?

A : $G = I / R$

KQVU : How many Radar Transponders (SART) are required to be carried onboard a ship for use in survival crafts?

A : 2 on new-builds only. Old ships have to comply by August -95

KQWV : Which electronic component is this graphical symbol illustrating:

A : Resistance, 3300 ohms

KQXF : On a General Cargo Vessel, under what regulations would steel bands remaining in the cargo holds have to be discharged?

A : MARPOL 73/78 (Annex V - Regulations for the prevention of pollution by garbage from ships)

KRBW : What is the crucial aspect in executing a voyage in a safe and efficient way?

A : People, officers and crew

KRBW : What is the crucial aspect in executing a voyage in a safe and efficient way?

A : - An effective detailed passage plan fully understood and followed by a competent bridge team.



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

KRDL : Cleaning products should be stored where?

A : In a room especially meant for cleaning products.

KRDM : All fuel oil tanks are vented through a

A : Gooseneck vent on main deck

KRDN : Inter-ship traffic at sea should preferably take place on:

A : VHF channel 06 or 08

KREQ : When a Classification Society surveyor identifies corrosion, structural defects or damage to the hull of a vessel, machinery and / or any piece of equipment which, based on the society's rules and in the opinion of the surveyor affects the ship's class, which of the following is that surveyor likely to issue?

A : A Condition of Class.

KRFV : What kind of warning signs should be placed on manholes into void spaces?

A : Warning signs that indicate lack of oxygen inside

KRKE : What should be taken into account regarding gas/oxygen before entering parts of the inert gas plant?

A : The atmosphere should be gas free and contain at least 21% oxygen.

KRMO : Under STCW 95, for how long is a certificate of competency valid?

A : 5 years

KRQD : By what practical means can the upper reaches of a bulk carrier's cargo hold be inspected?

A : Using a cherry picker

KRQD : By what practical means can the upper reaches of a bulk carrier's hold be inspected?

A : Using a cherry picker

KRRK : In RoRo cargo securing which of the following can be used as a general rule for deciding lashing requirements of a cargo unit

A : The total of the MSL values of the securing devices on each side of a unit of cargo (port as well as starboard) should equal the weight of the unit.

KRRK : What should be the breaking stress of lashing belts used to secure light vehicles?

A : 2.0 to 2.3 tonnes



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

KRRK : What should be the breaking stress of lashing belts used to secure light vehicles, on board a ro-ro vessel?

A : 2.0 to 2.5 tonnes

KRSJ : Some charters will require a reefer vessel to carry a general cargo, for example paper rolls for the manufacture of fruit cartons, on the return, empty leg of a voyage. Select from the options given, the main problem associated with carrying paper rolls on a reefer vessel in this way that the deck officers should be aware of.

A : The hold insulation and vent trunking can be damaged if the paper rolls are improperly secured.

KRVT : Which of the following is a Accounting Authority Identification Code?

A : FR01

KSEG : What are the disadvantages of large double bottom tanks on a double hull oil tanker?

A : The effect of free surface and reduction in the transverse metacentric height.

KSEG : What are the disadvantages with U-type ballast tanks?

A : The effect of free surface and reduction in the transverse metacentric height.

KSGK : Which of the following two digits codes is used to obtain medical advice ?

A : 32

KSOC : The manometer shown on the picture has an accuracy class 1.0. What is the measuring accuracy if the pointer indicates 6.0 bar?

A : +/- 0.06 bar

KSPR : What is the meaning of this signal performed by an aircraft to survivors on the surface? (Procedures performed by an aircraft as illustrated below)

A : The aircraft wishes to inform or instruct survivors

KSTC : What is the purpose of a separator?

A : To remove solids, water and sludge.

KSUH : A positive displacement, rotary type, volumetric flow meter reads low with an error reading of 1% when used to measure flow of heavy oil and 2.5% when used to measure the flow of diesel oil. From the options given select the most likely cause of this difference in error?

A : The meter is worn internally.

KSWJ : What is the main characteristic of the weak link in a float-free arrangement for inflatable liferafts?

A : be of sufficient strength to permit to pull the painter from the container and the inflation of the liferaft



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

KSXF : The word CHANNEL is spelled conform the international phonetic alphabet:

A : Charlie, Hotel, Alfa, November, November, Echo, Lima

KSXK : An alarm signal consisting of seven short blast followed by one prolonged blast is sounded by the ships whistle and alarm bells. What are you to do ?

A : go to your muster station

KTDL : SIGTTOs Liquefied Gas Handling Principles on Ships and in Terminals is recognised as an authoritative publication for the carriage and handling of LNG. Which of the given options is the SIGTTO definition of the term span gas?

A : A gas of known composition and concentration used to calibrate gas detection equipment.

KTDL : What is span gas?

A : A vapour sample of known composition and concentration used to calibrate gas detection equipment.

KTDL : Which of the given options is the SIGTTO definition of the term span gas?

A : A vapour sample of known composition and concentration used to calibrate gas detection equipment.

KTEC : What kind of safety sign(s) needs to be in place in connection with work in radar masts?

A : A fixed sign on the mast plus signs on each radar when work is in progress in the mast

KTIH : What is SITREP an abbreviation for?

A : Situation Report.

KTIK : A lubricating oil having a high viscosity index number is most effectively used:

A : Over a wide range of temperature variations.

KTIK : A lubricating oil having a high viscosity index number is most effectively used:

A : When the machinery operates over a wide temperature range.

KTIK : A lubricating oil having a high viscosity index number would normally be used in which of the following situations?

A : Over a wide range of temperature variations.

KTIK : A lubricating oil having a high viscosity index number would normally be used in which of the following situations?

A : When the machinery operates over a wide temperature range.



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

KTJF : If messages are received which aren't intended for own ship:

A : they must not be used for any purpose

KTLP : You are performing a closed loading and the high velocity valves starts ratteling, what will you do ?

A : Monitor the tank pressure closely and if necessary have the watchman to give the valve a little help to let the pressure out.

KT LX : On a Bulk Carrier, what should be done immediately, if during the voyage the temperature of bulk coal exceeds 55°C?

A : Seal the hold completely and monitor the cargo using suitable instruments

KTND : What is the minimum capacity "c" of the emergency fire pump ?

A : not less than 40% of total capacity of main pumps, but in any case not less than 25 m³/h

KTNG : What is the first function of
G M D S S ?

A : Transmission of ship to shore distress alerts

KT RL : Studies of shipboard emergencies show that many passengers do not read or remember safety information. As an officer, how can you best compensate for this fact?

A : In an emergency, repeatedly tell passengers whats happening, whats being done, and what they should do.

KT SB : Which statement is true?

A : Normal temperature of the lub oil after the cooler is approx. 45 C.

KT SO : Many lamb product cargoes are carried at sea. Most of these are temperature sensitive. Which is the odd one out from the options given?

A : Tallow.

KT XA : If Mouth - to - Mouth (M-T-M) ventilation by itself is unsuccessful and the casualty's heart stops, or has stopped beating, you must perform External Chest Compression (ECC) in conjunction with M-T-M. When performing ECC, where do you place your hand on the casualty's body?

A : Place the heel of one hand, two finger breadths above the bottom of breastbone. Cover the hand with the heel of the other hand.

KT XA : If Mouth - to - Mouth (M-T-M) ventilation by itself is unsuccessful and the casualty's heart stops, or has stopped beating, you must perform External Chest Compression (ECC) in conjunction with M-T-M. When performing ECC, where do you place your hand on the casualty's body?

A : Place the heel of one hand, two finger breadths above the bottom of breastbone. Cover

KUCD : In an extreme case, in addition to having your winch brakes as tight as can be, you can increase the brake holding capacity of the winch drum by putting it in gear and setting the power to the heave position. However this may cause:

A : All the listed alternatives



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

KUEX : You are on a chemical tanker, where the duty officer usually controls the operation of the pumps and valves from a control room. You are in radio contact with him. The ship has just started to discharge several grades of chemicals to shore. Suddenly, the jettyman shouts across to you to "STOP". Which of the following will you do?

A : Immediately repeat the request on the radio to the duty officer, then proceed to the manifold and stand-by for further instructions.

KUEX : You are on a chemical tanker, where the duty officer usually controls the operation of the pumps and valves from a control room. You are in radio contact with him. The ship has just started to discharge several grades of chemicals to shore. Suddenly, the jettyman shouts across to you to "STOP". Which of the following will you do?

A : Immediately repeat the request on the radio to the duty officer, then proceed to the manifold and stand-by for further instructions.

KUGH : In a distress situation, how many times or for how long should the emergency alarm signal be sounded?

A : Until all crew members and passengers have reported to their respective muster stations

KUGI : The fuel consumption for the main diesel engine has gradually increased over a period of a few months. All system pressures and temperatures appear normal. From the options given, choose the one which is the most likely cause of this.

A : Fouling of the hull

KUGP : A cellular container vessel is to load frozen ice cream in containers. Space is available either in the hold or as a deck stow. Select, from the options given, the most suitable stowage position, with the reason, for this cargo.

A : The deck stow as it is less sensitive to temperature in the event of a mechanical problem.

KULO : Which International Convention introduced the GMDSS ?

A : SOLAS

KUPP : With an Inmarsat-C installation there is the addressing-option "special". Via this option:

A : give one of Inmarsat's "special accesscodes"

KVCA : How often shall each member of the crew participate in an "abandon ship"-drill?

A : Once every month

KVCC : When a vessel arrives at a port to pick up a pilot and enter harbour, there should be someone required to stand by the anchor forward. How should the anchor be prepared and ready?

A : Posted on the notice board on board.

KVES : A MF/HF-DSC multi-frequency call attempt may:

A : be repeated after 3 and a half to 4 and a half minutes

KVPM : What would be the likely cause if the shaft of a centrifugal pump shows excessive wear in way of the stuffing box?

A : Excessive heating caused by over tightening of the gland packing.



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

KVQD : When is it necessary to run two pumps or more in parallel?

A : When the capacity requirement is higher than the performance of one centrifugal pump.

KVRB : Subject to allowance by the Port State Authority a tanker with a defective oil discharge monitoring and control system (ODME) may continue to trade for a limited period before a repair is effected. What period is allowed and what conditions apply?

A : A dry certificate has to be issued.

KVRB : Subject to allowance by the Port State Authority, a tanker with a defective oil discharge monitoring and control system (ODME) may continue to trade for a limited period before a repair is effected. What period is allowed and what conditions apply?

A : A dry certificate has to be issued.

KVRB : Subject to allowance by the Port State Authority a tanker with defect oil discharge monitoring and control system (ODME) may undertake?

A : A dry certificate has to be issued.

KVRE : In a refrigeration system, the condenser cooling water regulating valve is directly controlled by the:

A : Compressor discharge pressure

KVRG : What is the recommended range for the pH-value for the water in a diesel engine cooling system engine cooling water be maintained?

A : Between 7 and 10.

KVRG : What is the recommended range for the pH-value for the water in a diesel engine cooling system engine cooling water be maintained?

A : Between 7 and 9.

KVUM : What is the main purpose of VTS?

A : Increase safety for all ships in the area

KVUM : What is the main purpose of VTS?

A : - Increase the safety of all ships and the protection of the environment in the vicinity.

KVUR : Radio frequency signals can carry information from one place to another if it is modulated. There are several ways to modulate a carrier. Which modulating method is illustrated here?

A : Amplitude modulation (AM)

KVUR : Radio frequency signals can carry information from one place to another if they are modulated. There are several ways to modulate a carrier. Which modulating method is illustrated here?

A : Amplitude modulation (AM)



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

KVVK : When a vessel is transiting a canal with locks and intense bridge activities over many hours, what management issues should the Master consider?

A : - All of these answers

KVVK : When a vessel is transiting a canal with locks and intense bridge activities over many hours, what management issues should the Master consider?

A : At all times

KVVL : The wheatstone resistance bridge is often used for measuring resistances in, for example, Pt 100 temperature sensors or strain gauges. This figure shows such a bridge. Under what conditions will the bridge be balanced? i.e. the current through the meter $i(m) = 0$.

A : $R1 / R2 = R3 / R4$

KVVP : For what purpose is inert gas normally used in the cargo tanks of a liquefied gas carrier?

A : To prevent an explosive atmosphere forming in the cargo tanks before gas freeing.

KVVP : For what purpose is inert gas utilised on a gas tanker?

A : Inert gas is utilised onboard gas tankers to neutralise atmosphere in tanks and spaces.

KVXA : When washing dishes, what is considered as ideal water temperature when rinsing?

A : +75 C to +80 C

KVXC : In case each hydrant is not fitted with hose and nozzles, what is the requirement? (SOLAS II-2/4.6.1)

A : Complete interchangeability of hose couplings and nozzles

KVXU : What is the fog signal for a vessel of more than 100 meters in length when at anchor?

A : A rapid ringing of the bell forward followed by the gong aft for about 5 seconds at intervals of not more than 1 minute

KVYO : The abbreviation "COW" applies to an operational phase of oil tanker operations. What does "COW" stand for?

A : Crude oil washing.

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A : Crude oil washing.

KVYO : The abbreviation "COW" applies to a phase of oil tanker operations. What does it stand for?

A : Crude oil washing.



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

KWAP : When conducting a risk assessment for a shipboard work activity, what are the two elements to be considered?

A : The potential severity of harm and the likelihood that harm will occur.

KWAS : What must be accessible at all times whilst loading and stowing ro-ro cargoes?

A : Fire-fighting equipment

KWAS : What must not be obstructed when planning the loading of ro-ro cargoes?

A : Access to fire-fighting equipment

KWCB : Apart from steering the helmsman should also:

A : Regularly check the gyro against the magnetic compass

KWEB : A very small leakage of LNG vapour through the membrane of the cargo tank may not always be obvious. From the options given select the one which is likely to be the first indication that such a leak is present?

A : A sudden rise in the percentage of methane vapour in the primary insulation space.

KWEB : Vapour Leakage. A small leakage of vapour through the membrane may not be readily obvious. However, indications are likely to be:

A : A sudden rise in the percentage of methane vapour in one primary insulation space.

KWKK : Which of these conventions is The International Ship and Port Facility Security (ISPS) Code a part of?

A : SOLAS

KWOM : What is the purpose of an automatic shut-down system fitted onboard most liquefied gas carriers and how is it initiated?

A : To prevent overfilling of the cargo tanks. It is initiated by a high level sensor in the cargo tank.

KWOM : What is the purpose of an automatic trip system onboard, and how does this function?

A : Automatic trip is to avoid tanks and pressurised vessels becoming overloaded, the trip function is often initialised by a float switch.

KWPJ : When should a crew member joining a ship for the first time be given some training and instructions in the use of the ships fire-fighting appliances ?

A : As soon as possible but not later than 2 weeks after he joins the ship

KWPM : Is it necessary to cool the water samples from the cooling system, before testing ?

A : Yes, must be cooled to 25° C.



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

KWSS : Which one of the listed requirements regarding hydrostatic release unit for float free arrangements for liferafts does not correspond to present regulations? Hydrostatic release units shall:

A : be provided with a painter system with a breaking strength of not more than 2.2 kN

KWXY : A mechanical-hydraulic speed control governor fitted to an auxiliary engine is giving erratic speed control causing the engine to hunt wildly even when there is only a small load change. From the options given which is the most likely cause of this condition?

A : Compensation needle valve is open too much.

KXDO : Passivation is a restorative process periodically applied to stainless steel tanks on a chemical tanker. What effect does this process have on the steel surface?

A : It restores and reforms the passive Chromium Hydroxide surface layer.

KXLA : What is the requirement to number of inert gas blower(s)?

A : At least 2 blowers.

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A : At least 2 blowers.

KXLA : What type of stress would result in the "buckling" of a strength member of the structure of an oil tanker?

A : High compressive forces

KXLB : Most minor oilspills are caused by:

A : Human error

KXNU : On oil tankers, what is generally used to control the safety of the atmosphere in the cargo tanks?

A : Inert Gas

KXPQ : Drip trays are provided in way of the cargo manifold on the vast majority of LNG carriers. What is the main purpose of having this drip tray?

A : To minimise the risk of extremely cold cargo from spilling onto the deck, which may damage the ships structure, when disconnecting hard arms.

KXPQ : How many electrons are there totally in a carbon atom?

A : 6

KXVN : What is the legal requirement in respect of Material Safety Data Sheets for cleaning chemicals?

A : MSDS must be displayed on board for every cleaning chemical in use.



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

KXVN : What is the legal requirement in respect of Material Safety Data Sheets for cleaning chemicals that are used on chemical tankers?

A : MSDS must be displayed on board for every cleaning chemical in use.

KXXL : When loading steel coils into the hold of a General Cargo ship, which is the "locking coil"?

A : The final coil loaded at the centre of the stow in second, third and fourth tiers

KXXL : When loading steel coils, which is the 'locking coil'?

A : The final coil loaded at the centre of the stow in second, third and fourth tiers

KXYH : The instrument air system is suffering from excess water carry over to the instrument air lines. The air intake to the compressor has very high humidity. Which of the actions given in the options will most likely result in reducing this problem?

A : Reduce the superheat setting on the instrument air refrigeration/dryer unit.

KYBS : On a RoRo vessel, what should a duty crew member do if he observes stevedores smoking in no smoking areas?

A : Immediately inform the duty officer and stevedore foreman and politely ask the stevedores to stop

KYBS : What should a duty crew member do if he observes stevedores smoking in 'no smoking' areas?

A : Immediately inform the stevedore foreman and duty officer

KYBY : What is the working principle of the detectors of a common fixed sprinkler fire-extinguishing system?

A : they are fixed-temperature detectors

KYGT : Which of the 4 alternatives shows a PNP transistor?

A : Figure 2.

KYGT : Which of the 4 alternatives shows the symbol for a PNP transistor?

A : Figure 2.

KYLV : Which one of the listed requirements regarding life-saving appliances do not correspond to present regulations?

A : All prescribed life-saving appliances shall be made of non-combustible or fire retardant material

KYTH : How shall accidents and health hazards be prevented?

A : By all the other mentioned alternatives.



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

KYUC : A rating has approved emergency preparedness training, a certificate for watchkeeping in the deck department and 3 years of service time on deck and necessary knowledge of English. What post is a seafarer, with these required qualifications, qualified for on a Norwegian cargo vessel?

A : As an able seaman

KYVF : If your ship is in the tropics and you are going to be working out on deck during the day, what is the recommended daily intake of water for you to avoid the effects of dehydration?

A : 4.5 litres.

KYVX : The fuel oil separator (ALCAP) bowl discharge is not working properly

A : Opening water function missing.

KYYL : To whom should you report when the bow port or stern ramp is closed and secured?

A : The bridge/ Officer on watch

LAAH : Code signals concerning requests and general information on medical matters normally consist of:

A : Letter M plus two other letters.

LADB : How many rescue boats should be provided on passenger ships of 500 gross tons and above?

A : Two, one on each side of the ship

LAOL : What are the duties of engine room ratings forming part of an engine room watch?

A : To assist in the efficient and safe watchkeeping.

LAPJ : How is a steel locking coil lashed?

A : By metal banding passing over its top in a figure-of-eight and through each of the cores of the two coils on which it rests

LARA : In the figure, which letter indicates the "BREADTH" of the vessel?

A : Breadth is given by B on the figure

LASX : Your ship is loading at a Single Point Mooring. You are the rating on duty. Which of the following areas of the ship will you monitor continuously throughout your watch?

A : Forcastle head, manifolds, maindeck?

LASX : Your ship is loading at a Single Point Mooring. You are the rating on duty. Which of the following areas will you monitor continuously throughout your watch?

A : Forcastle head, manifolds, maindeck?



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

LATH : Why are drains fitted to hatch coamings?

A : To drain water that enters the hatch coaming channel via the hatch seals

LATH : Why are drains fitted to hatch coamings of a General Cargo ship?

A : To drain water that enters the hatch coaming channel via the hatch seals

LAWB : What method shall be used when hauling survivors out of the sea (state of survivors is critical)?

A : Using nets

LAWC : How often shall drills for the operation of watertight doors, side scuttles, valves and closing mechanism of scuppers, ash-chutes and rubbish chutes take place in passenger ships?

A : Weekly

LAWO : What name is given to the "energy" that a person "burns" during the day and which is replaced in the amount and type of food he eats?

A : Calories.

LAYJ : What will you do when all the fresh water in the survival craft is finished or about to finish?

A : Start collecting rain water

LAYN : You wish to carry out a test transmission on your radio equipment. What precautions should be taken if any?

A : All of the items in the other alternatives should be done.

LAYU : Among working conditions listed below which one is required for every propulsion engine of lifeboats?

A : Sufficient fuel to run at 6 knots for a period of at least 24 hours

LBBG : The Training Manual shall contain instructions and information on the life-saving appliances and the best method of survival. The training manual shall contain detailed explanations of crew duties in relation to emergency situations. Which of the following tasks or duties shall be included in the manual according to present regulations?

A : The use of the ship's line throwing apparatus.

LBGX : The recommended connection between antenna and VHF is:

A : coax cable

LBSN : What will You do if the PH-value in the boiler water is under 7?

A : Increase the dosage of chemicals, and take new test of the water.



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

LBUG : The picture shows the component parts of a fluorescent light (items 10 to 14) above a circuit diagram (items 1 to 9). Between which terminals of the circuit should the ballast (or choke) be connected?

A : 1 and 9

LBUG : The picture shows the component parts of a fluorescent light (items 10 to 14) above a circuit diagram (items 1 to 9). Between which terminals of the circuit should the ballast (or choke) be connected.

A : 1 and 9

LBVB : A seaman's right to go ashore on a day when shops and offices are open is:

A : At least once a month if circumstances permit it

LBVF : Under which MARPOL category are vegetable oils classified?

A : Category "Y".

LBVY : On a two stage compressor you will find pistons with different diameters (one is bigger than the other). Which one of the following statements is correct ?

A : The smallest diameter piston is the stage two piston.

LBWB : What is meant by the term feel over sequence as applied to diesel engine operation following replacement of a crankshaft bearing?

A : Stopping the engine to check the bearing temperature after a short period of operation

LBWB : What is meant by the term feel over sequence as applied to diesel engine operation following replacement of a crankshaft bearing?

A : Allowance must be made for a running-in period with reduced speed and careful temperature monitoring.

LBYM : In case of an urgent request for radio medical advice by VHF one should use:

A : urgency signal

LCDW : On a Bulk Carrier, why is burlap used to cover the bilge perforated plates?

A : To prevent small particles of cargo draining into the bilges

LCDW : Why is burlap used to cover the bilge perforated plates?

A : To prevent small particles of cargo draining into the bilges

LCFH : What separating temperature do you mean is best for lub. oil.?

A : 65 -85 C.



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

LCFH : What separating temperature do You mean is best for lub. oil.?

A : 85 - 90 Centigrades.

LCFY : What must be ensured when using ship's cargo gear in hot climates?

A : That grease from wire falls does not fall onto cargoes being loaded or discharged

LCFY : What must be ensured when using the ships cargo gear on a General Cargo vessel in hot climates?

A : That grease from wire falls does not fall onto cargoes being loaded or discharged

LCGP : Which of the following conditions will block the starting signal for the air start system of a medium speed diesel engine which is being used for main propulsion purposes?

A : Clutch engaged.

LCGW : On a cargo ship, what is the requirement for the ventilation ducts more than 2 metres long ?

A : They must be fabricated of non-combustible material

LCIJ : What is the meaning of organic chemistry?

A : Organic chemistry is substances that contain hydrocarbons.

LCKF : By what means can we monitor and control the integrity of the hull?

A : Automatic detection systems, television surveillance and patrolling

LCMO : On a ship installation it is preferable on vertical pumps to have shaft sealing at the pump upper only. For what reason?

A : All of the mentioned alternatives.

LCMW : A bilge strainer is blocking up during bilge pumping operations which is causing delays as the pump frequently loses suction and has to be primed. What action should be taken to remedy the situation?

A : Clean the strainer more frequently and clean out the bilge well at the first opportunity.

LCPA : After how many hours would you consider changing the turbocharger bearings, even though all appears to be normal?

A : 12.000 hours

LCQU : Anyone who makes or permits a false entry to be made in the log book, shall be liable to fines or imprisonment for a term not exceeding 1 year according to:

A : The General Civil Penalties Code § 315 .



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

LCQU : Anyone who makes or permits a false entry to be made in the logbook, shall be punished by imprisonment of up to 2 years according to:

A : The General Civil Penalties Code § 315 .

LCQV : Give the meaning of the following symbol

A : Start air supply

LCRT : After water-washing the turbocharger exhaust side it starts to vibrate even though it was operating normally prior to the washing procedure. What is the most likely cause of this problem?

A : The rotor blades are damaged or the blades are not properly cleaned

LCRT : After water-washing the turbocharger exhaust side, the blower starts to vibrate. What has happened?

A : The rotor blades are damaged or the blades are not properly cleaned

LCUV : Why is a vessel entering dry dock normally slightly trimmed by stern?

A : To position the vessel easily over the blocks.

LCVH : The use of combustible material is restricted in the accommodation spaces in order to:

A : Contain and suppress fire and explosion in the compartment of origin

LCWJ : On capsize bulk carriers what problems are associated with welding of the corrugated bulkheads during construction?

A : Several areas of the bulkheads being out of tolerance

LDBP : Why are pure car carriers considered as being high risk design vessels?

A : Because they can easily capsize if there is ingress of water

LDBP : Why are pure RoRo car carriers considered as being high risk design vessels where their stability is concerned.

A : Because they can easily capsize if there is ingress of water or ballast operations are not handled correctly

LDCS : When washing a cargo hold of a bulk carrier prior to loading a cargo of steel products, why is the space washed down with salt water and then fresh water?

A : To remove all traces of salt that would possibly contaminate the cargo if water drops onto the cargo

LDCX : Which of the following substance is ozone-depleting?

A : Halons



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

LDEA : The Training Manual shall contain instructions and information on the life-saving appliances and the best method of survival. The training manual shall contain detailed explanations of crew duties in relation to emergency situations. Which of the following tasks or duties shall be included in the manual according to present regulations?

A : The method of release from launching appliances.

LDGV : In the fire fighting of fires of a C kind with dry chemical powder extinguishers, the application is performed

A : in a continuous way so that the powder spray is in the same direction as the one of the flame

LDGV : In the fire fighting of fires of a type C with dry chemical powder extinguishers, the application is performed

A : in a continuous way so that the powder spray is in the same direction as the one of the flame

LDGW : Which of these items of container lashing equipment is particularly prone to sudden failure?

A : Fully automatic twistlocks

LDGW : Which of these items of container lashing equipment is prone to sudden failure?

A : Fully automatic twistlocks

LDHS : This resistor has the value of 68 k ohm. Which color code will you put on the different color-rings:

A : a. blue b. grey c. orange

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LDHS : This resistor has the value of 68 k ohm. Which colour code should be marked on the rings (assume ring d is the tolerance ring)?

A : a. blue b. grey c. orange

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LDHS : This resistor has the value of 68 k ohm. Which colour code will you see on the different colour-rings (assume ring d is the tolerance ring)?

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CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

LDIN : In some reefer trades cargoes of chilled horse meat carcasses are stowed hanging from deckhead rails in refrigerated locker spaces. What position should the centre of gravity be assumed to be at when carrying out the stability calculations for a vessel with such a stow?

A : At the deckhead of the lockers.

LDIQ : A centrifugal pump is to be reassembled following overhaul and it is discovered that there are no spare gaskets for the pump housing. From the options given select the best alternative material to make a gasket from.

A : Thick paper (old charts).

LDIQ : A centrifugal pump is to be reassembled following overhaul and it is discovered that there are no spare gaskets for the pump housing. From the options given select the best alternative material to make a gasket from.

A : Thick paper (chart paper).

LDKV : What type of vessel is this and from what direction are you seeing it?

A : A vessel engaged in fishing other than trawling, making way, with gear extending more than 150m from the vessel

LDLP : What is the requirement before discharging/loading when the washing system is fitted with steam heater for water washing?

A : Double shut-off valves or by clearly identifiable blanks.

LDLS : What is the possible position of a ship in distress called?

A : Zero-Point

LDLY : Which of the following contain gluten?

A : Potato flour

LDLY : Which of the following contains gluten?

A : Potato flour

LDOK : What does the Chief Mate want the OS to do?

A : He wants the OS to show him where the switch that changes between automatic, manual, and emergency steering is

LDPC : Which item among those below is included in the normal equipment of every liferaft ?

A : one copy of the prescribed life-saving signals

LDPW : Which of the following fittings shall be provided to all lifeboats:

A : a means for collecting rain water



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

LDVO : Why does a hatch cover hydraulic system deteriorate?

A : Due to dust and cargo particles lodging around the piston seals

LDVO : Why does a hatch cover hydraulic system deteriorate on a General Cargo vessel?

A : Due to dust and cargo particles lodging around the piston seals

LEDM : Before commencing loading an oil cargo, the cargo tanks are surveyed. How do we refer to any small amount of liquid, sludge and sediment found in the cargo tanks and assessed for the purposes of including in the calculation of cargo quantity loaded?

A : OBQ (on board quantity).

LEFX : A person wearing lifejacket or immersion suit, shall be able to turn from a face-down to a face-up position in not more than:

A : 5 seconds

LEGU : Who is authorized to prescribe use of locomotives and canal deck-hands during transit of the Panama Canal?

A : The Canal authorities

LEIE : Where should the vehicle belonging to a disabled person be placed?

A : Preferably near an elevator or a place where you have easy access to the stairways

LEKY : What is the meaning of this symbol ?

A : Radar transponder

LEMO : The DSC-controller display the following: DOO: 244562000 CH16 ; S distress sinking After receiving this DSC message the following is done immediately:

A : listen out on VHF channel 16

LEPT : One of the two water level gauge glasses on the high pressure boiler steam drum has started leaking quite heavily. What action, from the options given, should the boiler watch rating take?

A : Inform the Officer of the watch immediately so that arrangements can be made to replace the leaking glass.

LEQT : Do we need insulation on cargo tanks on semi-refrigerated gas carriers?

A : Yes, to avoid cold cargo to come in contact with the ship construction

LERT : At what temperature do we take the Reid Vapour Pressure test?

A : We take the Reid Vapour Pressure (RVP) test at the temperature of 37.8 C.



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

LETE : What is the meaning of TLV and what unit do we use on it?

A : TLV is threshold limit value and the unit is parts pr million ppm

LEUY : On a Container vessel, what should a crew member do if a tank container on deck is found with a leaking valve?

A : Report it immediately to the duty officer

LEUY : What should a crew member do if a tank container on deck is found with a leaking valve?

A : Report it immediately to the duty officer

LFAP : During helicopter evacuation of an injured man, what course should the ship steer?

A : As instructed by the helicopter pilot

LFAG : Which of the following actions should be done before throwing this type of inflatable liferaft over the side?

A : Check that the painter is made fast to a secure point and that the sea below is clear

LFAT : For two generators running in parallel, their share of additional load (kW) will be determined by the:

A : Governor droop settings on each prime mover

LFAY : Which of the following instructions will generally be given by a port authority to allow welding or hot work in a tank having contained flammable liquids ?

A : During work in tanks, the gas concentration shall be checked every second hour

LFDG : You are at the manifold with the cargo surveyor, drawing samples at the start-up of cargo. A sample of 2-Ethyl Hexanol is off colour. The surveyor instructs you to open the manifold valve and start loading. What will you do?

A : Keep the manifold closed and not let any cargo reach the cargo tanks, then call Chief officer/Captain.

LFHJ : During inspection of the crankshaft of a medium speed diesel engine cracks are discovered at one of the main journal pins. The cracks originate from one of the oil holes and are progressing along the pin at approximately 45 degrees to the axis. From the options given select the most likely failure mode that would cause this.

A : Torsional fatigue due to excessive torsional vibration in the crankshaft.

LFQG : On a RoRo vessel, what should one consider prior to loading machinery with caterpillar crawlers on the hatch covers?

A : Maximum permissible loading of the hatch covers and the horizontal restraint of hatch covers and coamings

LFQG : What should one consider prior to loading heavy machinery on a vessels hatch covers?

A : The maximum permissible loading of the hatch covers as well as the horizontal restraint of the hatch covers and coamings



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

LFQG : What should one consider prior to loading machinery with caterpillar crawlers on the hatch covers?

A : Maximum permissible loading of the hatch covers and the horizontal restraint of hatch covers and coamings

LFTT : What is the definition of a "near miss"

A : When an accident nearly occurs in connection with the operation of a ship

LFVT : What type of damage does a cargo of steel coils sustain when loaded on a General Cargo ship?

A : Crushing and distortion

LFXF : A 450 volt 3 phase brushless alternator will have the following combination of items mounted on the rotor:

A : 3 phase excitation winding/rectifier bank/main field winding

LFYY : In a fresh water tank we are using a pressure transmitter with a range of 0-0.5 bar / 4-20mA for level measurement. The transmitter is for different reasons installed 30 centimeters from the bottom of the tank, and the tank is 5 meters high. What will the output from the transmitter be when the tank is full? (Pending no calibration is made)

A : Formula 4

LGCY : Skin contact with liquid methane can result in severe frostbite. Assuming a crewmans hands have been frostbitten due to exposure to liquid methane, which of the given options would be an appropriate initial first aid action?

A : Place the victims hands in his bare armpits

LGGI : Who may through delegation/agreement be given authority to survey a NIS cargo vessel of 500 gross tons and above (offshore units excepted)?

A : A ship's classification society recognized by the Norwegian Maritime Directorate.

LGHG : The carrier frequency is also given as:

A : assigned frequency

LGHH : Fluid-driven eductors (as commonly found on crude oil tankers), operate on a principle known as Bernoullis principle. What does that state?

A : The speed of a moving fluid increases as the pressure in the fluid decreases.

LGPV : What is the IMO recommended allowance for water absorbtion in timber deck cargoes on a General Cargo Vessel ?

A : 15% additional weight should be used in stability calculation for the arrival condition

LGSE : How can you minimize the squat effect?

A : Decrease the speed as much as practicable



LGSG : Indicate the correct name for the part marked on the sketch:

A : Piston

LG TJ : What is the maximum quantity of cargo permitted to be carried in a single tank on a type 2 chemical tanker?

A : 3000 cubic metres

LG TJ : What is the maximum quantity of cargo permitted to be carried in a single tank on a type 2 chemical tanker as per the IBC Code?

A : 3000 cubic metres

LGWL : When a vessel is to experience a long tow across an ocean, what would be the best system of connecting the tow?

A : - Wire from a deep sea tug connected to the ship's anchor chain?^

LGWL : When a vessel is to experience a long tow across an ocean, what would be the best system of connecting the tow?

A : Wire connected to chain through center lead or anchor chain

LHEQ : How many rocket parachute flares are carried in each liferaft?

A : 4

LHFO : Which rights does a seafarer who is unfit for work normally have?

A : Care, wages, free passage home

LHIW : The Master is responsible that all crew participate in monthly emergency drills. If 25% of the crew -or more- has not participated in such drill during the last month, what is the time limit to conduct such a drill after the vessel has left a port?

A : Within 24 hrs.

LHMF : What is the purpose of explosimeters?

A : Measure the amount of explosive gases in % of LEL.

LHND : What kind of fixed extinguishing plant is commonly installed in an oil tankers pump room?

A : CO2 plant.

LHND : What kind of fixed extinguishing plant is commonly installed in an oil tankers pump room?

A : CO2 plant.



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

LHND : What kind of fixed extinguishing plant is installed to use on an oil tanker's engine room and pump room?

A : CO2 plant.

LHND : What kind of fixed extinguishing plant is installed to use on an oil tankers engine room and pump room?

A : CO2 plant.

LHSA : What is the meaning of the term purification?

A : Separation of two insoluble liquids with different densities, and at the same time removal of solids.

LICF : Which international convention deals with maritime safety and safety equipment onboard ro-ro passenger vessels?

A : SOLAS

LICU : The lowest temperature at which a liquid will give off sufficient vapors to form a flammable mixture with air is known as the:

A : Flash point

LICW : Which of these statements is incorrect with regard to Ro-Ro cargoes?

A : Stowage on deck is recommended when ventilation for a particular package is not required

LICX : Injuries resulting from slips and falls constitute the largest percentage of accidents that occur in the catering department. What shall be done to reduce this high accident rate?

A : Keep the floors and decks free from fat and grease.

LIDV : On the figure 4 possible definitions of the term "ASTERN" are shown. Which one is the correct one?

A : Astern is defined as D on the figure

LIFP : Give the meaning of the following symbol

A : Flame detector

LIGK : How often are abandon ship drill and fire drill required to be held on passenger ships, according to SOLAS?

A : Weekly

LIMC : Why is it impossible to have a lifeboat drill at present?

A : Because the ship is leaving after sunset the following day



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

LINN : Which detergent is recommended when washing dishes?

A : Neutral cleaner.

LIPD : How many separate means of escape are provided from each fire zone above the bulkhead deck?

A : At least two

LIQF : Define the class of emission F1B :

A : Radiotelex and DSC - Frequency shift keying of carrier with error correction

LIQG : You are sailing in shallow water, with 15% Under Keel Clearance. With full RPM, what will your speed be compared to deep water?

A : Slower

LIRE : Define the class of emission F3E :

A : Radiotelephony - Frequency modulation

LISN : One of the provisions mentioned is NOT as important for safety of the seafarer onboard a ship as the other ones. Which one is less important?

A : Seaman's Act Section 5.

LISN : One of the provisions mentioned is NOT as important for safety of the seafarer onboard a ship as the other ones. Which one is less important?

A : Seaman's Act Section 5.

LISS : The continuous listening watch on VHF-channel 16 on board of a ship:

A : must also be kept after the implementation of GMDSS

LISU : The MESAR is a book of:

A : directions for search operations

LITS : Who is responsible for ensuring that your ship's security plan meets the requirements of the ISPS Code?

A : Company Security Officer

LIVF : The emergency-battery of a GMDSS-portophone:

A : cannot be charged



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

LIYJ : If conditions permit, which is the best way to board a liferaft that is floating close to the ship?

A : Use a rope ladder close to the raft to climb down and board

LJYJ : If conditions permit, which is the best way to board a liferaft which is floating close to the ship?

A : Use a rope ladder close to the raft to climb down and board

LJBE : What is a ZENER BARRIER?

A : A zener barrier is a unit made to obtain intrinsically safety in installations for instrumentation in hazardous areas.

LJBE : What is a ZENER BARRIER?

A : A zener barrier is a unit made to obtain intrinsic safety in installations for instrumentation in hazardous areas.

LJDC : What does the term liquefaction mean with respect to some heavy metal concentrate cargoes on a Bulk Carrier?

A : The cargo may suffer moisture migration and become semi-liquid near the top of the stow

LJEQ : ISGOTT draws attention to the risk of electrostatic potential in a mist produced by using oil and water mixture in Crude Oil Washing operations. How does the Guide recommend this is avoided?

A : 125 %

LJJO : Thermistor will typically have

A : Relatively non linear characteristic

LJKN : Which item among those below is included in the normal equipment of every lifeboat ?

A : one waterproof electric torch suitable for Morse signalling

LJLY : How is shallow water effect felt in a vessel?

A : The vessel becomes sluggish in responding to the rudder

LJNM : A reefer vessel is loading a cargo of fruit alongside in a South African port. During loading another vessel arrives at an adjacent berth to have its cargo discharged after having been towed in following a fire onboard which had resulted in abandonment. What should concern the Master of the reefer vessel most about the situation?

A : That the cargo may be contaminated by the smell of smoke and the products of combustion from the damaged vessel.

LJQX : What does a low angle of repose indicate with respect to a bulk cargoes?

A : The cargo is more liable to shift than cargo with a high angle of repose



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

LJWW : The responsibility for safety and security rests with everybody on board the vessel. General house-keeping rules should be followed. Which of the listed rules is the most important?

A : Do not use loose garments, belts, ties or scarfs near winches and moving machinery.

LKCQ : What comprises an INMARSAT-B subscriber number?

A : Nine digits, beginning with a three (3).

LKDM : Which of the following requirements to fixed foam systems for cargo deck area on tankers do not correspond to present regulations? (SOLAS II-2/61)

A : Sufficient foam concentrate shall be supplied to ensure at least one hour of foam generation

LKDO : What will you do if the liquid start raising in the Surge Drum? (Direct cooling / refrigeration system).

A : Immediately reduce on the suction valve, and watch the gauge.

LKEJ : On area A2 the function " Transmission and reception of signals for locating " is mainly based on:

A : the use of SART transponders

LKET : According to MARPOL there are requirements regarding minimum amidships draught for crude oil tankers in ballast condition. What is the formula for calculating minimum draught amidships?

A : $2.0 + 0.02L$

LKHU : During the transmission every DSC-symbol is:

A : always sent twice

LKHX : You have abandoned ship in a liferaft. Which of the following actions should you take?

A : Organize a lookout system and join up with other survival craft if possible. You should also stream the sea anchor

LKJO : You wish to send a message via an Inmarsat-C installation to an Inmarsat-A telex installation. The message is composed in 'ASCII'. The message can be sent:

A : as a fax

LKLU : On a RoRo vessel, which regulations require supervising the embarkation of persons on board ship?

A : The International Ship and Port Facility Security (ISPS) Code

LKLU : Which regulations require supervising the embarkation of persons on board ro-ro vessels?

A : The International Ship and Port Facility Security (ISPS) Code



LKUO : Which regulations require supervising the embarkation of persons on board ship?

A : The International Ship and Port Facility Security (ISPS) Code

LKVE : Give the meaning of the following symbol

A : Area protected by sprinkler

LKYH : In what kind of measuring equipment can we find a Bourdon-tube?

A : In a pressure transmitter.

LKYH : In what kind of measuring equipment might we find a Bourdon-tube?

A : In a pressure transmitter.

LLGF : To which of the following are transverse accelerations related?

A : Ship's breadth/GM

LLGF : To which of the following ratios are transverse accelerations related?

A : Ship's breadth divided by GM

LLIP : An alarm signal consisting of seven short blast followed by one prolonged blast is sounded by the ships whistle and alarm bells. What are you to do?

A : Go to your lifeboat station

LLPA : How is the condenser cooling water flow regulating valve automatically controlled in a vapour compression refrigeration system?

A : By the compressor discharge pressure.

LLTF : As with heat burns the damage of frostbite /hypothermia may be either superficial or deep, and the affected tissues may be destroyed. What kind of first aid should be given a person with frostbite ?

A : Hand or body heat the affected parts skin-to-skin (e.g. frozen hand in persons opposite armpit...)

LLUA : What does this crane signal indicate?

A : Move the load in the direction of the signal man's hand.

LLUC : Automatically connected telephone calls via INMARSAT A are charged

A : on the basis of a six second minimum charge with six second incremental steps



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

LLUC : Automatically connected telephone calls via INMARSAT A are charged:

A : on the basis of a six second minimum charge with six second incremental steps

LLVU : What could be the most probable cause to overheating of bearings?

A : Lubricating oil temperature is too high.

LLVW : When carrying i.e. isocyanates which reacts with water and the only heating medium for the heating coils is water, how would you then plan the stowage in order to keep the cargo within requested temperature ?

A : Stow the product adjacent to a cargo which have a heating around the requested temperature for the isocyanate.

LLXP : The maximum current that a 15 Volt, 3 Watt Zenerdiode can handle without damage is

A : 0.2 A

LMCM : There are 3 lifeboats on each side of a passenger ferry engaged on short international voyage and having a factor of subdivision equal to 0,4. All these lifeboats are identical. What should be the total number of persons that can be accommodated in the 3 lifeboats on the starboard side altogether ? (*) N is the total number of persons that vessel is permitted to carry.

A : at least 15 % of N (*)

LMEL : What is the most important factor to be considered when planning the lashing system for a particular sea route?

A : Transverse accelerations

LMGE : During cargo tank gassing up and cooling down operations on an LNG carrier which of the given options, regarding temperature, needs to be observed?

A : Never allow temperature of the insulation to fall below the safe minimum temperature.

LMGE : When gassing up. What to watch with regard to temperature?

A : Never allow temperature of methane to exceed safe limits for insulation.

LMOA : How often should each lifeboat be lowered into the water and manoeuvred with its operating crew aboard under SOLAS regulations?

A : At least every three months

LMPX : What precaution is to be taken when the Engineer on Duty is entering an UMS-mode operated engine room due to an alarm or due to a scheduled routine check?

A : Switch the UMS selector switch to manual mode and engage the "dead man alarm"

LMQS : You have an important navigational or meteorological message to transmit. What call should proceed this message when made on the radio telephone?

A : Securite Securite (3 times)



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

LMQS : You have an important navigational or meteorological warning to transmit. What call should precede this message when made on the radio telephone?

A : Securite Securite (3 times)

LMRY : Who is responsible for supervising stevedores during cargo operations?

A : The master

LMRK : Where is the best position of the oil/water interface in these figures?

A : Position A.

LMTI : Which cleaning agents for machinery space are important to use due to the oily water separators function?

A : A non-emulsifying agent with self splitting emulsifiers.

LMXF : In radio-telex distress traffic preference is given to FEC because:

A : everybody can read along

LNAB : On passenger ferry the passengers are not normally allowed to be on the car-deck during sailing. What is the reason for this rule?

A : In case of an emergency situation, the car deck can be difficult to find the way around, and cars can shift position caused by ship's movement.

LNDB : What do the letters IMDG stand for?

A : International Maritime Dangerous Goods.

LNDE : What personnel on board a British ship must be in possession of a lifeboat or survival craft certificate?

A : Everyone who may be in charge of life-saving equipment

LNEE : A seaman, who forms part of the minimum manning level, has not returned from shore leave, can the vessel sail without him, or someone in that rank?

A : No, the vessel must wait his return or his replacement

LNQG : The effect of the reflection of radio waves in the ionosphere on the transmission range also depends on:

A : the height of the layers of ionisation

LNHU : During loading of bananas the fruit should be visually inspected frequently to check the quality and for any indications as to its physiological development. Which one of the options given would indicate that the fruit is in suitable condition for shipment?

A : The bananas have a uniform green colour with relatively sharp ridges along the length. They can be snapped or broken with sap clinging between the broken parts.



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

LNIJ : Which one of the listed requirements regarding service and maintenance of life-saving appliances do not correspond to present regulations?

A : At least one member of the crew shall hold a repairman certificate for life-saving equipment

LNKR : A drip tray containing oil is on fire. The only fire fighting equipment available is a water hose with single jet/spray nozzle. How, if at all, should you attempt to put out this fire using water?

A : The water can be applied in a fine spray starting from the front in a sweeping motion

LNKX : What does the Captain mean?

A : Set the engine to dead slow ahead, and change the course 10 degrees to port

LNOD : When using a PID controller, which of the following parameter settings will not result in oscillation?

A : Too long I-time

LOBC : The IMO Cargo Stowage and Securing Code (CSS) indicates in the Rule of Thumb, the total strength of the lashings on each side of a heavy lift; what is the stated value ?

A : The Maximum Securing load of the lashings must equal the weight of the cargo unit

LOFV : To prevent overload of the MF/HF transmitter;

A : clean the dust filter of the fan regularly

LOGQ : Which item among those below is included in the normal equipment of every rescue boat ?

A : two buoyant rescue quoits

LOIB : Where is the normal position of the "Pivot Point" of the vessel when going ahead?

A : -1/3 of the vessel's length from the bow.

LOIY : What is the main purpose of a VHF-installation onboard:

A : to enhance the safety of lives at sea

LOKP : What is the most dangerous overtaking situation shown on the sketches?

A : A large vessel overtaking a small vessel with little difference in speed between the two vessels

LOLK : When using cleaning equipment, what is important before starting?

A : Knowing exactly how the equipments are working.



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

LOPB : What lights are required on an inconspicuous, partly-submerged vessel or object of less than 25 metres in breadth (other than a dracone) being towed?

A : One all-round light at or near the forward end and one at or near the after end of the tow.

LOPP : Give the meaning of this symbol:

A : lifebuoy with light and smoke

LOSI : To evaluate the condition of a heat exchanger the following measurements should be recorded:

A : In and outlet temperatures, and flow rates for both media

LOUK : How many lifejackets are required in a passenger cabin?

A : Same number as beds in the cabin

LOXC : What is an unsaturated hydrocarbon?

A : Unsaturated hydrocarbons are colourless liquids with a sweetish odour and they are chemically reactive

LPFX : On the figure 4 possible definitions of the term "WINDLASS" are given. Which one is the correct one?

A : Windlass is given by B on the figure

LPHX : The compulsory testing of a prescribed EPIRB is to be done:

A : once a month

LPIA : What should be done if a Bulk Vessel is trimmed outside the limits of its trim correction tables during a draught survey?

A : Bring the vessel to within the trim limits imposed by the tank sounding tables prior to carrying out the survey

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A : Bring the vessel to within the trim limits imposed by the tank sounding tables prior to carrying out the survey

LPIA : What should be done if the vessel is trimmed outside the limits of its trim correction tables during a draught survey?

A : Bring the vessel to within the trim limits imposed by the tank sounding tables prior to carrying out the survey

LPJV : Is it the duty of the master to meet personally at a Norwegian Consulate if he is called for by the head of the Consulate?

A : Yes



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

LPLW : The ships crew are supervising the stevedores loading a non-palletized, break bulk cargo of fruit packed in cartons onto a conventional reefer vessel. Select the best type of stow to achieve good carriage conditions for the cargo from the options given.

A : A tight stow leaving no space between the cartons so that the cold air is forced through the fruit in the cartons.

LPOU : What duties are imposed on an employer in respect to the Health & Safety at Work Regs

A : The employer must write an up-to-date policy statement and bring this to the notice of all on board

LPRT : Ships officers must use a thermometer to take and record the pulp temperature of commodities being loaded onto a reefer vessel. From the given options, select the most important attribute of such a thermometer.

A : It must be correctly calibrated.

LPXE : What is important to prepare prior to a helicopter operation?

A : Make sure all loose deck equipment at helicopter deck is stowed away and secured.

LPXX : Fuel oil from a leaking fuel pipe has been collected in a drip tray under the boiler furnace. The oil is suddenly ignited by a backflash from the boiler burner. The boiler room is manned and the person present has the choice of various extinguishers. The fire is purely a surface fire. What would be the preferable extinguisher?

A : Powder

LPYS : Which class of emission is used for MF radio telephony transmissions ?

A : J3E

LQBJ : Which item among those below is included in the normal equipment of every lifeboat ?

A : a sea-anchor fitted with a shock-resistant hawser

LQDW : What is the requirement with regard to Familiarisation on board?

A : Seafarers, on being assigned to any ship, shall be familiarized with their specific duties and with all ship arrangements, installations, equipment, procedures and ship characteristics that ar

LQFL : The restriction of overtime work is that the person shall not be required, under normal circumstances, to work more than:

A : 14 hours per day

LQGH : Give the meaning of the following symbol:

A : 0

LQGJ : All fuel oil tanks are vented through a

A : gooseneck vent on main deck



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

LQLH : What is the expansion ratio of the foam produced by the fixed low-expansion foam fire-extinguishing system of an engine room?

A : Less than 12 to 1

LQRD : Which of these steps (in shut-down procedure) shall be executed last?

A : Shut down of inert gas blower

LQRG : Which of the following is the minimum acceptable value of insulation resistance for High Voltage equipment?

A : 100 M Ohms

LQSV : What does this crane signal indicate?

A : Raise the boom, lower the load.

LQSW : Why is it necessary to cool down LNG cargo tanks slowly prior to loading cargo?

A : To minimise thermal stresses in the cargo tank.

LQUE : Which of the following foods will increase the cholesterol levels in the blood if eaten in excessive quantities?

A : Pork

LQWD : Which alternative is correct for measuring current over the load L?

A : Figure 3.

LQWD : Which alternative is correct for measuring current through the load L?

A : Figure 3.

LQXX : You have a brine-system onboard with steam heating for defrosting. Which liquid will You circulate first through the heater to avoid damage on the heater?

A : Open for the steam first to avoid freezing of condensate inside the heater.

LRBA : Which of the following detailed explanations should be mentioned in the Training Manual ?

A : The best use of all survival craft facilities in order to survive

LRDS : What is the purpose of the IGC code?

A : The purpose of the IGC code is to provide an international standard for safe carriage of liquefied gases in bulk



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

LRFF : The temperature control for a hot water system is very erratic with the temperature gradually rising and then suddenly falling and vice versa even though system demand is fairly constant. Which of the options given is the most likely cause of this problem?

A : Control valve gland is over tightened.

LRIU : You are on a multiple-product chemical tanker with orders to load diethylamine. What is NOT a requirement for transporting this cargo?

A : A person taking cargo samples must wear protective clothing.

LRLK : On a RoRo vessel, what precaution should be taken when doing maintenance on car decks when loaded?

A : Tools are properly secured and cargo is protected from any possible damage

LRLK : What precaution should be taken when painting on car decks during cargo operations?

A : Cargo hold fan inlets must be closed near the paint area

LRNP : The maximum height that a pilot should be required to climb on a pilot ladder before reaching the deck or stepping onto an accommodation ladder platform is:

A : 9 mtrs

LRNW : Which class of emission is used for MF radio telephony transmissions ?

A : J3E

LROO : Unfortunately an insect has become lodged in the ear. How to remove the insect?

A : Gently flood the casualty's ear with tepid water so that the insect will float out.

LROQ : Why is it important to check the ullages of the cargo tanks and sound double-bottom tanks at regular and frequent intervals during an oil tankers loaded passage?

A : Check if any internal or hull leakages

LRSW : In a fresh water tank we are using a pressure transmitter with a range of 0-0.5 bar / 4-20mA for level measurement. The transmitter is for different reasons installed 30 centimeters from the bottom of the tank, and the tank is 5 meters high. What will the output from the transmitter be when the tank is full? (Pending no calibration is made)

A : 18,8 mA.

LRSY : Which feedwater condition would you prefer?

A : pH value 7.5

LRTI : What is the characteristic for Alkanes?

A : Alkanes have only single bonds between atoms.



LRTI : Which of the hydrocarbon gases is the main one in LNG?

A : Methane.

LRUI : Which item among those below is included in the normal equipment of every liferaft ?

A : a food ration for each person

LRWC : In which waters are piracy attacks most frequent?

A : Indonesian waters

LRWC : In which waters are piracy attacks most frequent?

A : - The anticipated weather and the need for weather routing. The distances gained by sailing by great circle. The ship's draught and the leadline limits

LRXW : When ordering fresh pears, which unit of measurement would you use?

A : Kg

LSCP : How many total frequencies are available for DSC distress alerting?

A : Seven (7).

LSCV : Passenger ships have a normal requirement of 1 lifejacket per person + 10% for children. In addition to this, how many lifejackets have to be stowed in conspicuous places on deck or at the muster stations?

A : 5% extra

LSDR : If a distress signal is received, what would you do?

A : All of the alternatives together.

LSFC : What do you understand by the term Hoisting?

A : Making the grab bucket/hook move up and down.

LSJL : In the context of ship design, what does the abbreviation "OBO" stand for?

A : Ore Bulk Oil.

LSLA : Who is authorized to prescribe use of locomotives and canal deck-hands during transit of the Panama Canal?

A : The Canal authorities.



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

LSLX : Which one of the listed requirements regarding self-righting partially enclosed lifeboats do not correspond to present regulations? Self-righting partially closed lifeboats shall have:

A : sufficient number of pumps and bailers

LSNO : Which one of the listed requirements regarding rocket parachute flares do not correspond to present regulations? The rocket parachute flares shall:

A : burn with a bright orange colour

LSOH : What is the name given to a liquid, in which the bones of a fish, poultry or meat carcass have been boiled, along with some vegetables, to be used later as the basis of a soup or sauce?

A : Stock.

LSPE : What is the main hazard associated with entry into an enclosed space?

A : The atmosphere inside may contain insufficient oxygen to support life, or toxic vapours, or both.

LSPE : You have just completed your tank cleaning programme for a set of tanks that previously contained Toluene, Acetone and Iso-Propanol. What will the main hazard be when you enter the tanks for mopping and inspection?

A : The atmosphere inside may contain insufficient oxygen to support life, or toxic vapours, or both.

LSPE : You have just completed your tank cleaning programme for a set of tanks that previously contained Toluene. What will the main hazard be when you enter the tanks for mopping and inspection?

A : The atmosphere inside may contain insufficient oxygen to support life, or toxic vapours, or both.

LSPE : You have just finished washing a set of tanks that previously contained Toluene, Acetone and Iso-Propanol. What will the main hazard be when you enter the tanks for mopping and inspection?

A : The atmosphere inside may contain insufficient oxygen to support life, or toxic vapours, or both.

LSRS : What is the meaning of the abbreviation "RQ" at the end of a DSC sequence?

A : Acknowledgement request

LSSR : What is a fire wire?

A : Wire for pulling burning ships off the pier

LSWV : When you are cleaning the fuel-oil burner tips you should use

A : Brass knife

LTAC : What does heaving result in?

A : Vertical accelerations acting along container corner posts



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

LTAN : What is the minimum permissible distance measured horizontally between the ships shell plating and the outer side bulkhead of the first cargo compartment on a type II chemical tanker?

A : Not less than 760 mm.

LTCP : What is the correct range for the pH-value for the water in an oil fired steam boiler?

A : 8,3 - 9.

LTDG : Why are a greater number of lashings required to secure cargo forward on deck compared with amidships under deck of a General Cargo Vessel?

A : Because the dynamic stresses on the lashing are much greater

LTGA : What type of buoy is this?

A : Isolated danger

LTHT : Your vessel is moving in Panama Canal waters. When must a regular engineer be on watch in the engine room?

A : At all times.

LTIN : What will happen with the interface in the bowl, if the flow is too high?

A : Broken water seal.

LTNI : An area within the radiotelephone coverage of at least one VHF coast station in which continuous DSC alerting is available is called:

A : A1

LTNL : Which of the following are SARSAT COSPAS EPIRB frequencies :

A : 406,025 et 121,5 MHz

LTQR : the minimum number of lifebuoys required on a cargo ship depends on:

A : the length of the ship

LT SX : On a General Cargo Vessel, what should a cargo lashing plan comply with?

A : The cargo securing manual

LT SX : What should a cargo lashing plan comply with?

A : The cargo securing manual



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

LTXR : During a voyage a young person celebrates his 18th birthday, would this require alternative arrangements in the crew agreement?

A : Yes, at the first port after his birthday, he would sign off from the ALC1c and re-sign on in the ALC 1a section

LTXV : What is the value of GZ upto an angle of heel of 5 degrees?

A : $GM \times \sin$ angle of list

LTXV : When is the value of GZ no longer able to be calculated using GM sin Angle of Heel?

A : Larger angles of heel

LTYV : On a RoRo vessel, where is the best place to find information on loading ramp limitations?

A : In the loading ramp manual

LTYV : Where will you find information on loading ramp limitations?

A : In the loading ramp manual

LUAE : Did he study the contract in every detail before he signed it?

A : No, despite the fact that he promised to carry out several duties.

LUAE : Did he study the contract in every detail before he signed it?

A : He studied the contract in detail before signing it because he wanted to know his duties

LUAT : In a cascade control system, what is the correct mode of the slave controller during normal operation

A : The slave controller shall be in remote mode

LUCD : On a RoRo vessel, when securing a non-standardized portable tank, what is a favourable securing angle that will prevent it from tipping in the fore and aft direction?

A : 50 to 60 degrees

LUCD : When securing a non-standardized portable tank what is a favourable securing angle that will prevent it from tipping in the fore and aft direction?

A : 50 to 60 degrees

LUDJ : Give the meaning of the following symbol

A : Start engine



LUDO : What is the fundamental purpose of a coast radio station?

A : To provide continuous digital selective calling coverage.

LUEN : What happens during Parametric Rolling when a wave trough is amidships?

A : There is an increase in righting levers

LUEN : Which of the main movements experienced by a container ship will create the largest forces exerted on the container frames and lashings. The movements are: Rolling; Pitching; Heaving; Swaying; Surging and Yawing.

A : Rolling, Pitching and Heaving

LUFB : Your ship receives HFO with high density from the last bunkering. What will You do to obtain the best purifying result?

A : According to the nomograms You select a gravity disc with larger hole diameter.

LUHR : Which Convention placed on the shipowner an obligation to exercise due diligence to make a ship seaworthy, requiring him "before and at the beginning of a voyage...to...make the ship seaworthy...and...make the holds...and all other parts of the vessel in which goods are carried, fit and safe for their reception, carriage and preservation"?

A : - The Hague-Visby Rules.

LUIF : On a RoRo vessel, which of the following is not designed to hold chain lashings?

A : Crinkle bars

LUIF : Which of the following is not designed to hold chain lashings?

A : Crinkle bars

LUMK : COTP can request (OPA-90)

A : Unannounced drills at any time

LUMM : Which of the valve types given in the options is most likely to be used in the cargo loading lines of a liquefied gas carrier?

A : Ball and butterfly valves are generally utilised on loading lines on gas carriers

LUMW : Where should empty and uncleaned receptacles that previously contained toxic gas be stowed?

A : On deck abaft the accommodation

LUOS : If inspection or repair of the boiler is due, the plant has to be shut down, and the boiler emptied for water. If time is available, which of the following procedures is correct?

A : The boiler should be allowed to cool down after shut down and then the water should be drained out.



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

LURR : Which of the following is a INMARSAT M Mobile Earth Station Identification Number (IMN)?

A : 622753420

LUYC : You are assigned to accompany a cargo surveyor during tank inspection. A wall-wash is to take place in tank 3 centre. As the surveyor is preparing his equipment for this, you observe that a drop of sweat falls onto the collection funnel. What will you do?

A : Draw the surveyors attention to it. Take note that he thoroughly cleans the funnel with the wall-wash solvent before collecting the laboratory sample. Report the matter to the Duty officer.

LUYC : You are assigned to accompany a cargo surveyor during tank inspection. A wall-wash is to take place in tank 3 centre. As the surveyor is preparing his equipment for this, you observe that a drop of sweat falls onto the funnel. What will you do?

A : Draw the surveyors attention to it. Take note that he thoroughly cleans the funnel with the wall-wash solvent before collecting the laboratory sample. Report the matter to the Duty officer.

LVDJ : What types of vessels shall carry an approved VRP (OPA-90)

A : Tanker vessels carrying oil

LVEH : The exhaust gas is too dark because of:

A : Any of the others.

LVFA : Which one of the given requirements listed below, regarding survival craft muster and embarkation arrangements, listed below, corresponds to the present SOLAS regulations ?

A : muster and embarkation stations shall be readily accessible from accommodation and work areas

LVGI : A General Cargo vessel develops an angle of loll while loading a heavy item of deck cargo alongside; what is the action to be taken ?

A : Stop cargo, reduce FSE in tanks, lower weights within vessel and fill small ballast tank on low side of vessel

LVKW : How often shall abandon ship- and fire drills take place on board passenger ships?

A : Weekly

LVLW : The effectiveness of CO2 as an extinguishing agent is based on:

A : Combustion suppression

LVMK : What will you serve seafarers who has been exposed to cold?

A : Warm nutritious drinks.

LVRO : Which of the following items shall be included in each fire drill?

A : Checking the operation of watertight doors, fire doors, fire dampers and relevant communication equipment



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

LVSL : Apart from red, what other colour is frequently used for a CO₂ extinguisher?

A : Black

LVTL : What is a "ladle"?

A : A big spoon.

LVUI : For types "A" and "B" cargo tanks, what is the requirement with regard to shut-off valves for liquid and vapour connections where cargo tanks have a MARVS less than 0.7 barg?

A : Single shut-off valves.

LVUI : Gas carrier type A and B cargo tanks have a MARVS of less than 0.7 barg? What is the liquid and vapour connection shut off valve requirement for this type of tank according to the IMO gas codes?

A : Single shut-off valves with manual closing facility.

LVUY : Which PH - values are recommended when cleaning carpets and furniture textiles?

A : 38237

LVVO : When is the Officer of the Watch officially relieved of his responsibilities of being in charge of the watch?

A : Because the Captain expects fog early in the morning

LVVQ : The fixed-pressure water-spraying fire-extinguishing system nozzles must ensure an effective average distribution of water in machinery spaces of

A : 5 l/m²/min

LVXI : The aim of fire detection is

A : all the answers are correct

LVYA : What is the most common type of controller

A : PI-controller

LVYC : Which of the following requirements to ships stability for normal operation corresponds to present regulations? (NSCL 4/12.2)

A : The ship is loaded in such a manner that adequate stability is achieved in all loading condition.

LVYC : Which of the following requirements to ships stability for normal operation corresponds to present regulations? (NSCL 4/12.2)

A : The ship is loaded in such a manner that adequate stability is achieved in all loading condition.



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

LWAA : What information has to be given to set up a radio telex-connection with a coast-station:

A : ARQ followed by the coast-station's ID-number

LWBS : Give the meaning of the following symbol

A : Lower lifeboat to water

LWDJ : IMO publishes the IGC Code relating to LPG and other liquefied gas carriers. What does the IGC code primarily deal with?

A : The IGC code primarily deals with gas carriers design and equipment

LWKS : You are Sen.Off.Deck on a vessel and you have been in collision with an other vessel. The other vessel is on fire. What will you do?

A : Check own vessel for any loss of life, danger of explosion and offer your assistance to the other vessel

LWKS : You are Sen.Off.Deck on a vessel and you have been in collision with an other vessel. The other vessel is on fire. What will you do?

A : - After checking the extent of the damage and welfare of your crew, possible your vessel should standby and offer assistance, until beii relieved of that obligation by the other vessel.

LWKS : You are Sen.Off.Deck on a vessel and you have collided with another vessel which is on fire. What would you do?

A : - After checking the extent of the damage and welfare of your crew, possible your vessel should standby and offer assistance, until beii relieved of that obligation by the other vessel.

LWKS : You are Sen.Off.Deck on a vessel and you have collided with another vessel which is on fire. What would you do?

A : Check own vessel for any loss of life, danger of explosion and offer your assistance to the other vessel

LWLR : What is the main reson for keeping engine lubricating oil viscosity within recommended limits?

A : To ensure the strength of the oil film is sufficient to keep lubricated surfaces apart.

LWND : What is the minimum number of independently driven fire pumps that must be provided on cargo ships of 1000 GRT and above?

A : 2

LWOA : Which electronic component does this graphical symbol illustrate?

A : Bipolar transistor

LWOW : Having a CO2 alarm during normal working hours, what immediate action should be taken?

A : Get out of the engine room as soon as possible.



LWPS : Overcall control of the working of an Inmarsat-A terminal can be realised by:

A : request of an "automatic telex test"

LWUP : Watch the situation. Which of the two vessels is most to blame?

A : Vessel "A", merchant vessel

LWXH : A message is send by the Inmarsat C-set. The land earth station will:

A : only send a positive delivery notification (PDN) to the sender if the sender requested, so in the send menu

LXHE : Which branch of the MCA are responsible for Search and Rescue

A : HM Coastguard

LXHI : What would indicate wastage to the main shaft of a 'D' ring?

A : Corrosion of its retaining sleeve

LXIT : Which method is best for determining earth failure on a 24 VDC power supply?

A : A lamp, (0-50 mA) and a mA-meter in series.

LXJQ : What is the meaning of this symbol ?

A : Start engine

LXMG : What is the general emergency alarm signal as specified in SOLAS?

A : Seven or more short blasts followed by one long blast

LXML : Which of the methods given in the options will give the most accurate test of the accuracy of a bourdon tube type pressure gauge with a range of 0 to 20 bar?

A : Check the gauge on a deadweight tester

LXNG : Which of the following requirements applies to a "C class" bulkhead?

A : It must be constructed of approved non-combustible materials

LXSR : On a RoRo vessel, what danger is associated with damaged expanded metal gratings on loading ramps?

A : Vehicles tyres may be damaged during cargo operations



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

LXSR : What danger is associated with damaged expanded metal gratings on loading ramps?

A : Vehicles tyres may be damaged during cargo operations

LX SX : You are going to enter a tank to clean up some dust. What kind of permits is required to be issued before entering?

A : Enclosed Space Entry Permit and Cold Work Permit

LXTX : Satellite communication is usually provided by :

A : sky wave

LYIU : Give the meaning of the following symbol

A : EPIRB

LYIV : If the water and oil have emulsified, is it possible to remove the water in the separator

A : No

LYKN : What is a "Bollard"?

A : A remedy to which the mooring lines are made fast.

LYKO : On the figure 4 possible definitions of the term "BREADTH" are given. Which one is the correct one?

A : Breadth is given by B on the figure

LYMA : Which of the following services is not provided by INMARSAT A

A : Safetynet

LYRB : How can an azimuth or bearing be indicated by signal flags?

A : The letter A + three numerals.

MAAW : The range of a transducer is 0-200 bar.and the output signal is 4-20 mA. What is the output signal when the process value is 100 bar?

A : 12 mA

MAAW : The range of a transducer is 0-200 bar. The standard output signal is 4-20 mA. What is the output signal when the process value is 100 bar.

A : 12 mA



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

MAFP : The word EIGHT is spelled conform the international phonetic alphabet:

A : Echo, India, Golf, Hotel, Tango

MAFQ : The word VOLUME is spelled conform the international phonetic alphabet:

A : Victor, Oscar, Lima, Uniform, Mike, Echo

MAJW : Where does the excess steam discharge to when the boiler safety valves operate due to the boiler pressure being too high.

A : Atmospheric line

MAKV : Why is it important to have an efficient fire patrol system on board passenger ships?

A : To ensure that an outbreak of fire may be promptly detected

MAML : What is the meaning of this symbol ?

A : Secure hatches

MAOX : Which one of the listed fire-extinguishing medium is to be preferred to fight a fire in an electric installation (for example the main switchboard)?

A : Powder.

MAUQ : The lifebuoy making part of quick-release arrangement must have a weight of at least:

A : 4 kg

MBAP : Why is it recommended that a person who handles food stuffs should avoid using perfume and scented anti-perspirant body sprays?

A : Because there is a possibility that the scent can transfer to the food during handling.

MBAT : On area A1 the function " Transmission and reception of ship to ship distress alerts " is mainly based on:

A : the use of VHF DSC

MBBL : If a passenger asks you a question you cannot answer, what will you do?

A : Tell the passenger that you will confer your colleagues and revert with an answer, or you bring the passenger along to a colleague who can give an answer to the question. Never say I dont know

MBER : Too high exhaust temperature in one cylinder becomes because of:

A : Scavenge ports dirty.



MBFP : What would you do before you start soot blowing

A : All alternatives

MBFV : What must be ensured prior to loading heavy lift cargoes?

A : That there are no free surface moments in tanks

MBFV : What must be ensured prior to loading heavy lift cargoes, on a general cargo vessel?

A : That there are no free surface moments in tanks

MBGK : The purpose of the wear ring for the illustrated pump is to -

A : Provide a replaceable wear surface for the pump housing/impeller.

MBGW : What roll amplitude is generally used by classification societies in calculating rolling forces?

A : 24 - 30 degrees

MBJW : What is the main problem associated with oil in a steam boiler water system?

A : It adheres to the boiler tubes and reduce the heat transfer. It combines with solids to produce sticky deposits.

MBMG : At which of the pressures shown should the high discharge pressure trip operate on a freon compressor?

A : + 18.5 bar

MBMJ : What is the requirement with regard to Familiarisation on board?

A : Seafarers, on being assigned to any ship, shall be familiarized with their specific duties and with all ship arrangements, installations, equipment, procedures and ship characteristics that ar

MBOQ : What is the purpose of an observation tank in a boiler feed system?

A : To check condensate returns for oil.

MBRG : Which of the following requirements applies to a fixed fire detection system?

A : All answers are good

MBRG : Which of the following requirements applies to a fixed fire detection system?

A : All the answers are correct



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

MBTS : In ships carrying very hot cargoes above 140 degrees Celsius - which might cause local steel buckling - such as molten sulphur and asphalt, it is noticed that while sulphur is carried in independent tanks, the asphalt can be carried in tanks integral with the ships hull. This is because:

A : The asphalt unlike sulphur is a viscous product and therefore does not transmit its heat easily to the steel bulkheads, allowing the steel to stay cooler than the cargo?

MBUO : What is a "passenger" according to SOLAS regulations?

A : Every person other than the Captain and the members of the crew or other persons employed or engaged onboard the ship in the business of that ship.

MBVJ : What is the only reliable way of checking that the CO2 cartridge in a "Dry Powder" extinguisher is full?

A : Remove the cartridge and weigh it as it has the full and empty weights stamped on it.

MBVQ : In RoRo Cargo Planning What should be considered for the location of stowage of a heavy loads such as transformer, locomotive or work boats?

A : The stability of the vessel, access to the location and the SWL of the stowage location

MBVQ : What should be considered for the location of stowage of a heavy transformer, locomotive or work boats?

A : The distribution of ship's accelerations

MBVQ : What should be considered when deciding upon a location for the stowage of heavy machinery, locomotives or work boats?

A : The ship's accelerations at that location

MBWF : A very dusty cargo is to be loaded on a bulk carrier; what precautions on deck should be included?

A : All cranes, deck houses and storerooms fully closed down to prevent entry of dust

MBWF : A very dusty cargo is to be loaded on a bulk carrier; what precautions on deck should be included?

A : All cranes, deck houses and storerooms fully closed down to prevent entry of dust

MBWH : Which of the following fittings shall be provided to all lifeboats:

A : a device to secure a painter near its bow with an inside release device that can be operated under tension

MBXC : On which frequency a ship must maintain a continuous watch when sailing in area A2?

A : 2187,5 kHz

MCEM : What is the period of validity of Tonnage certificate

A : Indefinite



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

MCEP : While their respective characteristics differ in detail, which of the following main operating features do all positive displacement pumps have in common if they are working under non-cavitating conditions?

A : All of the mentioned alternatives.

MCIV : When is the 2nd Mate supposed to call the Captain?

A : When anything unusual happens, and 30 minutes before the pilot station

MCKN : How many hand held distress flares are carried in each liferaft with SOLAS A pack?

A : 6

MCMC : Which of the following has the lowest price per kilo?

A : Mackerel fillet

MCUG : What should the duty crew member do if he observes stevedores smoking in a no smoking areas on a General Cargo Vessel?

A : Immediately inform the stevedore foreman and duty officer

MCUG : What should the duty crew member do if he observes stevedores smoking in 'no smoking' areas?

A : Immediately inform the stevedore foreman and duty officer

MCXS : You wish to send a message with the Inmarsat-A fax-installation to an Inmarsat-C installation. This is:

A : not possible

MCYQ : Poster or signs shall be provided on or in the vicinity of survival crafts and their launching controls. Which one of the following requirements has to be included according to present SOLAS regulations?

A : Give relevant instructions and warnings.

MDCA : What should you keep in mind when releasing lashings?

A : Release lashings with great care to reduce the risk of injury when tension is released

MDDX : Before loading operation starts, what shall you as duty officer observe?

A : Physical checking the ramp/cargo holds/hoistable decks and see that everything are in order and the ship's gear correctly located?

MDGB : On a RoRo vessel, what should be done when cargoes that transmit stack loads are to be loaded onto the vessels decks or hatch covers?

A : Stow the cargo on timbers of sufficient thickness so as to distribute the stack load



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

MDGB : What should be done when cargoes that transmit stack loads are to be loaded onto the vessel's decks or hatch covers?

A : Stow the cargo on timbers of sufficient thickness so as to distribute the stack load

MDHW : For how many hours a day during navigation shall the radio officers on a passenger ship carrying more than 250 passengers listen on the radiotelegraph distress frequency using headphones or loudspeakers?

A : 16 hours

MDIW : At an inspection of the radio station on board abroad:

A : the operating certificates of the radio-operators must be shown

MDJK : The vessels cranes are marked: "SWL 29,5 tons x 22 M/R (including lifting beam weight 1,5 tons)". You like to lift onboard a load of steel coils being placed on the berth. Distance from C/L of crane to the steel coils is 22 meters. What will be the maximum weight of the coils (in one lifting) in order to have a "safe" lifting?

A : 28,0 tons

MDJM : By what means can we monitor and control the integrity of the hull?

A : Automatic detection systems, television surveillance and patrolling

MDLC : Some liquefied gas carriers require a secondary barrier as part of the cargo containment system. What is the main purpose of a secondary barrier on these gas carriers?

A : To prevent the environment to be polluted if there is a leak on a cargo tank

MDNF : How is a dangerous substance listed in the IMDG Dangerous Goods List?

A : By its Proper Shipping Name (PSN)

MDNF : On a Container vessel, what are the new colours on the IMDG Code label for class 5.2 - Organic Peroxides, since 2006?

A : Yellow and red

MDNF : What are the colours on the IMDG Code label for class 5.2 - Organic Peroxides?

A : Yellow and red

MDNT : Give the meaning of the following symbol

A : Start water-spray

MDNV : Which of the following INMARSAT services provides communications by telephone, telex, facsimile, and data?

A : INMARSAT-A.



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

MDNV : Which of the following INMARSAT services provides communications by telephone, telex, facsimile (f, and data?

A : INMARSAT-A.

MDQG : Will an individual contract of engagement for service on NIS ships be legally accepted?

A : Yes, provided it appears, amongst others, the wages and overtime pay and that it is subject to Norwegian laws and courts, but may be brought before a court in the employee's country of residence

MDRU : Which of the following areas may be possible restricted areas? (Review all answers)

A : All alternatives

MDWK : On a container vessel, what are flexitanks used for?

A : The carriage of non-hazardous liquids, in bulk

MDWK : What are flexitanks used for?

A : The carriage of non-hazardous liquids, in bulk

MDWK : What causes failure of container lashings?

A : The stowage of heavy over light containers

MDWY : What extra precautions should be taken by the officers and crew if some of the passengers are disabled, i.e. using wheelchair, cane, blind etc.?

A : All passengers that will require extra assistance, also in case of an emergency situation/ evacuation, must be registered in order to allocate crew to assist them if needed.

MDXE : Which of the tools given in the options is the best one to select for cutting a new external thread on the end of a steel pipe?

A : Split dies.

MECU : Which mooring lines are visible in this image?

A : They are to let go on the stern lines

MECX : There are several methods for applying floor polish, which is considered the best?

A : Soft cloth on wide applicator with handle.

MEDS : What has to be done before the central gas extinguishing system is used on a fire in engine rooms, cargo holds or other confined spaces?

A : Make sure that the compartment has been evacuated



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

MEFE : Who is responsible to carry out Safety Familiarisation training on board

A : Safety Officer

MEFG : Under which circumstances should a sprinkler head of a common fixed sprinkler fire-extinguishing system be activated?

A : Automatically, when the temperature is within a range from 68°C to 79 °C

MEFK : What must be ensured prior to loading heavy lift cargoes on a General Cargo Vessel?

A : That there are minimum free surface moments in tanks

MEGQ : Many fruit cargoes are carried refrigerated and also under controlled atmosphere (CA) conditions. A situation develops where there is a problem with the main reefer plant that will take several hours to repair but the CA system is still operation. Which of the statements given in the options is the most accurate in these circumstances?

A : The CA plant is only an adjunct for the refrigeration plant and therefore there should be concern about the condition of the cargo.

MEIV : The signal of an Inmarsat EPIRB:

A : will immediately be detected within the coverage-area by the satellite's concerned

MEJJ : On area A2 the function " Transmission of ship to shore distress alerts" is mainly based on:

A : the use of MF DSC

MEKG : Emergency instructions in appropriate languages shall be posted in passenger cabins. Which information shall as a minimum be included in the emergency instructions?

A : The method of donning life-jackets, escape routes and alarm signals

MELX : MF communication is usually provided by :

A : ground wave

MEMY : If conditions permit, which is the best way to board a liferaft which is floating close to the ship?

A : Use a rope ladder close to the raft to climb down and board

MEOW : On a Container vessel, what is shown on the new Marine Pollutant label under the IMDG Code?

A : A dead tree and dead fish

MEOW : What is shown on the new 'Marine Pollutant' label under the IMDG Code?

A : A dead tree and dead fish



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

MEPK : What is the minimum number of bolts required in a 12 inch bolted flange cargo hose coupling?

A : A bolt in every hole

MEQC : Why do we use stabilisers on passenger ships?

A : To decrease the rolling angle of the vessel

MEWT : If the temperature decrease, what will happen with the interface in the bowl ?

A : Broken water seal, oil outside the top disc.

MFAM : What is the absolute maximum size for a cargo tanks on oil tankers?

A : Maximum 40,000 cubic metres.

MFAM : What new stability problems would be caused by having deep double bottom tanks on double hull oil tankers?

A : The Metacentric Height (GM) would have to be considered.

MFBY : Your vessel is going alongside. One tug will assist at the mooring. How do you want to use the tug and at which position?

A : Make fast on the vessel's shoulder to push and pull

MFBY : Your vessel is going alongside. One tug will assist at the mooring. Which position and how do you want to use the tug?

A : Make fast on the vessel's shoulder to push and pull

MFCY : What items of container securing equipment must be used in conjunction with buttresses?

A : Double stacking cones or link plates

MFDO : A SART must be visible on the ship's radar from a distance of at least:

A : 5 miles

MFDO : In making VHF communication or test transmission you must:

A : identify yourself with your call sign and /or ships name

MFNP : What is the definition of liquefied gas according to the IGC code?

A : According to the IGC code liquefied gas is chemical with vapour pressure exceeding 2.8 bar absolute at 37,8oC



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

MFYQ : Modern large slow speed diesel engines operate with very efficient turbochargers. This has resulted in much later opening of the exhaust valve as less energy is needed to drive the turbocharger giving exhaust timing which is almost symmetrical about bottom dead centre. How has this affected the reversing operation of the engines?

A : Only the fuel and starting air timing needs to be changed to reverse the engine.

MGAY : What would you do before you start soot blowing

A : all alternatives

MGCN : The position that is determined built in GPS-receiver in an Inmarsat-E has an accuracy of about:

A : 200 meters

MGCN : The position that is determined by built in GPS-receiver in an Inmarsat-EPIRB has an accuracy of about:

A : 200 meters

MGCS : What kind of permits have to be obtained before starting hot work in tanks?

A : Hot work permit + Permit for entry.

MGMS : What determines the size of the "sump" in a chemical tankers cargo tank?

A : When combined with the estimated residues on the bulkheads and in the associated pipelines, the quantity of residues remaining in the sump must be below the maximum quantity remaining after di

MGOW : A 2 term controller is used to control the fuel oil temperature for a thermal oil system used for heating services. The control is very unstable with the measured value hunting constantly. Select the most probable cause of this problem from the options given.

A : Integral action reset time is set too fast.

MGPW : The lifebuoy not making part of quick-release arrangement must have a weight of at least:

A : 2,5 kg

MGSG : How much lifeboat capacity should be provided on a conventional cargo ship of more than 85 meters in length?

A : 100% of the ships complement on each side

MGVT : The hydrostatic release of an EPIRB should be changed

A : Every two years

MGVV : On the figure 4 possible definitions of the term "ROLLER FAIRLEAD" are given. Which one is the correct one?

A : Roller fairlead is given by B on the figure



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

MHHP : The responsibility for safety and security rests with everybody on board the vessel. General house-keeping rules should be followed. Which of the listed rules is the most important?

A : Do not use dangerous liquid detergents in closed spaces.

MHHP : The responsibility for safety and security rests with everybody on board the vessel. General house-keeping rules should be followed. Which of the listed rules is the most important?

A : Do not use dangerous liquid detergents in closed spaces

MHJG : In which areas is plastic material accepted for overboard disposal?

A : Not permissible any where.

MHKY : The main purpose of the superheater vent valve on the boiler is to

A : ensure a flow of steam through the superheater when raising steam pressure after shut down

MHLN : How often should each lifeboat be lowered into the water and manoeuvred with its operating crew aboard under SOLAS regulations?

A : Every three months, at least once a year

MHMP : In a heat exchanger where seawater is used to cool fresh water, the seawater pressure should be maintained lower than the freshwater pressure to:

A : Prevent contamination if leaks are developed

MHMP : In a heat exchanger where seawater is used to cool fresh water, the seawater pressure should be maintained lower than the freshwater pressure to:

A : Prevent seawater contamination of the central cooling system in the event of seal failure

MHNE : It is important that the brake holding capacity of a self stowing winch drum should not exceed the breaking strength of the wire or rope wound onto it. A certain percentage of extra strength is therefore recommended for the wire or rope over the brake holding capacity of the winch. So, for a winch of brake holding capacity of 60 Tons you would order a wire of breaking strength:

A : 100 Tons

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A : 100 Tons

MHMK : While the vessel is in a Red Sea port during August loading/discharging a hydrocarbon cargo, should the air suction for the accommodation be:

A : Recirc. full open, fresh air intake closed.

MHNM : During which time may watertight doors in watertight bulkheads in tweendeck cargo spaces be kept open in passenger ships?

A : In ports only



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

MHPB : Welding and flame cutting are among the factors which give the highest risk of fire on board ships. Precaution has to be taken to avoid this risk. Which of the following safety rules may be regarded as the most important?

A : The welder shall have been instructed in the use of the ship's welding plant

MHRO : A water content greater than 2 % is detected in a lub oil system. What is the best action to do?

A : Segregate the oil in a separate tank for continuous purifying.

MHRU : Which of the methods given in the options should be used to test a remote reading temperature gauge for the auxiliary boiler exhaust gas?

A : Check the resistance change in the sensor over a known temperature range against the

MHRY : What name is given to all the knives, forks, spoons, etc?

A : Cutlery.

MHUV : When a new crewmember joins a ship for the first time, on-board training and instructions in the use of the ships life-saving appliances, including survival craft equipment and in the use of the ships fire extinguishing appliances shall be given as soon as possible. What is the maximum timeframe for completion of this training?

A : Maximum 2 weeks

MHVT : Chemicals and harmful substances are safely stored in a designated locker on board, why?

A : For safety reasons. Many substances found onboard are capable of damaging the health and safety of those exposed to them. Before any chemical or harmful substance is delivered to a crewmember,

MIBG : What must be specified when ordering gas detection equipment?

A : That the instrument is suited for its purpose of application

MIBG : What must be specified when ordering gas detection equipment when used in association with bulk carriers?

A : That the instrument is suited for its purpose of application

MICB : According to the specification for Oil Discharge Monitoring and Control Systems for oil tankers laid down by IMO, which of the following is the definition of an overboard discharge control?

A : A device which automatically initiates the sequence to stop the overboard discharge of the effluent in alarm conditions and prevents the discharge throughout the period the alarm prevails.

MIFX : On what wave band does the search and rescue radar transponder operate?

A : 9 GHz

MIFY : In the charts, objects are sometimes marked "Racon". What is that?

A : A buoy or a lighthouse which is activated by a ships radar, and indicate this by a marker on the radar.



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

MIIB : The vessels cranes are marked: "SWL 29,5 tons x 22 M/R (including lifting beam weight 1,5 tons)". You are going to lift onboard a 28 tons load being placed on the berth. What will be the maximum distance from C/L of crane to the load you are going to lift in order to have a "safe" operation?

A : 22 m.

MIJD : What is the meaning of this symbol ?

A : Lifeboat

MIJF : The battery of a
S A R T :

A : must be replaced before the expiry date is exceeded

MIJY : A distress-alert call from an RCC or coast-station, preceding distress alert relay, begins with:

A : MAYDAY RELAY (3x)

MILK : Measurement of oil cargoes is often achieved with a "UTI" device. What do the letters "UTI" stand for?

A : The boundary between oils and water?

MIOE : The exhaust gas temperatures of all cylinders of a diesel engine are seen to be high. Select, from the options given, the most likely cause of this.

A : Poor fuel oil quality.

MIOE : The exhaust gas temperatures of all cylinders of a diesel engine are seen to be high. Select, from the options given, the most likely cause of this.

A : Fuel oil quality

MIQL : One of the checks during the annual Class survey of the UMS functions is focusing on cleanliness of the engine room. What is the reason for such a check ?

A : To reduce the general risk of fire in an unmanned engine room.

MIQO : Give the meaning of the following symbol:

A : davit launched liferaft

MITU : The duty engineer of a UMS ship is approached by a member of the ships staff, seeking permission to hang wet working clothes in the engine room to dry. Should he:

A : Not allow the clothes to be hung anywhere in the unmanned machinery spaces.

MIWH : What is the correct lifting technique?

A : Legs bent, back straight, using leg muscles to lift



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

MIYW : What is the minimum number of independently driven fire pumps that must be provided on passenger ships of 4000 tons gross tonnage and upwards?

A : 3

MJBS : A non-reversing medium speed diesel engine is used to drive a controllable pitch propeller through a pneumatic clutch and reduction gearbox. The engine has been tested and brought up to operating temperatures on engine control. Which of the options given would be the preferred status of the engine and associated equipment when it is handed over to bridge control?

A : Engine running, clutch disengaged, propeller at zero thrust.

MJBY : In the formula 0.9LBD (tonnes) for the amount of high density bulk cargo that can safely be loaded in a cargo hold, what is the value of 'D'?

A : The summer load draught

MJDT : Vessels cranes have various safety devices and interlocks to maintain a safe and regulated operation. Several "Bypass" switches are fitted for this purpose and these are locked by keys. During crane operations, what would be the appropriate routines in respect of these "Bypass" switches/keys?

A : Keep the keys with the Duty Officer/Electrician and call one of them when "Bypassing" is required.

MJIH : Who can carry out a Quadrennial Thorough Survey of cargo gear?

A : A classification society surveyor

MJKM : What is full form of VRP (OPA-
9 0)

A : Vessel Response Plan

MJKW : W h a t i s
S E L F E C :

A : a one-sided transmission meant for one vessel

MJLP : Hydrate formation may be a problem with some LPG cargoes. The hydrates may enter cargo pumps, block lubricating passages, unbalance impellers and seize bearings. What is the most common practice to prevent such problems?

A : Inject a small quantity of freezing-point depressant into the pump.

MJLP : Hydrate formations may enter cargo pumps, block lubricating passages, unbalance impellers and seize bearings. What is the most common practice to prevent such damage?

A : Inject a small quantity of freezing-point depressant into the pump.

MJLP : What gives the condenser pressure in a 1 stage direct cooling plant?

A : Piston, screw and centrifugal type compressors.

MJLP : Which types of compressors are used as cargo compressors onboard liquefied gas carriers?

A : Piston, screw and centrifugal type compressors.



MJMI : Why do we use stabilisers on passenger ships?

A : To decrease the rolling angle of the vessel

MJPN : How is a radio-telex traffic list transmitted:

A : FEC

MJPV : The analyses of the smoke produced by a fire, may give an interpretation of that fire. Which are the factors we should take into account?

A : Opacity, amount and colour

MJUW : On a RoRo vessel, when should a trailer horse be taken out of service

A : if there is any damage to the wheel or spring, the frame is rusted or distorted or the pads are worn out

MJUW : What is the Maximum Securing Load of high tensile steel chains?

A : 40% of the breaking strength

MJXV : Give the meaning of the following symbol

A : Fire station

MKAJ : Which provisions regulate the question of handbooks for medical treatment that shall be carried on board?

A : Regulations of 11 Dec. 1981 concerning medical supplies etc on board ship

MKAU : This graphical symbol is a logic gate. Which gate?

A : NOR

MKCF : On area A3 the function " Transmission and reception of signals for locating " is mainly based on:

A : the use of SART transponders

MKCI : What is meant by the term "certified gas free"?

A : A tank, compartment or container that has been tested by an authorised person using an approved testing device and found to contain an adequate level of oxygen and free from toxic or flammable

MKGM : The log-in of an Inmarsat-C installation is important:

A : to inform the NCS that one is available for messages offered



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

MKMI : What is commonly recognised as the main hazard associated with unprotected entry into an enclosed space on a tanker?

A : Lack of oxygen?

MKMI : What is commonly recognised as the main hazard associated with unprotected entry into an enclosed space within the cargo area on an oil tanker?

A : Lack of oxygen?

MKNC : What governmental body is responsible for shipping?

A : Department of Environment, Transport and Regions (DETR)

MKPE : How many crews are required to be trained and regularly drilled in all aspects of fast rescue boats in various conditions, including righting after capsizing?

A : At least 2

MKQD : The densities of hydrocarbon gas mixtures evolved from normal petroleum products are all greater than the density of air. When mixed with air at 50% by volume, what is the density of Propane relative to air?

A : 1.25

MKQD : The densities of most hydrocarbon gas mixtures which evolve from normal petroleum products are greater than the density of air. What would be the approximate relative density of a mixture of 50% by volume of air and propane relative to 100% air?

A : 1.25

MKRE : What is the main difference between a stuffing box gland and a mechanical seal on a centrifugal pump?

A : If packing fails the pump can be kept running by tightening the glands, but if a mechanical seal fails it must be renewed to stop the leakage

MKTY : Experience has shown that the most successful method of double banking (when no tugs are used) is:

A : With both vessels underway, fig. 1

MKTY : Experience has shown that the most successful method of double banking (when no tugs are used) is:

A : - When both vessels are underway, fig. 1

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A : With both vessels underway, fig. 1



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

MKUF : You are alongside, port side to, about to commence loading several grades of chemicals. The Duty Officer instructs you over the walkie-talkie to proceed to the port manifold and open the valve to 4 port line. When you get there, there is no hose connected to that line. What will you do?

A : Report the situation back to the Duty Officer. Request clarification and confirmation of the instruction.

MKUM : How would you know how many people a lifeboat is supposed to hold ?

A : the number of persons should be clearly stated on the outside of the boats bow

MKVM : On a Container vessel, what should be done if a container with a damaged corner post is being loaded?

A : The container should be returned to shore immediately

MKVM : What should be done if a container with a damaged corner post is being loaded?

A : The container should be rejected outright

MKXA : Before loading ore cargo, any spaces which previously contained oil, even if not being used for ore (example - wing tanks on an O/O carrier) should be cleaned and gas freed. On the ore loaded voyage these spaces should:

A : Be checked at regular intervals for gas which might be released perhaps from sludge deposits

MLDW : What are the main elements in a damage control plan?

A : Boundaries of the watertight compartments for decks and holds. Position of controls for opening and closing of watertight compartments. Arrangement for correction of list due to flooding.

MLES : Only search vehicle compartments where you suspect objects may be hidden.

A : FALSE

MLHS : How is damage to the piston rod stuffing box rings avoided when removing and replacing the piston during overhaul of the piston of a large two stroke diesel engine?

A : A tapered guide sleeve should be fitted over the threaded end of the piston rod.

MLJI : The holding down arrangement for a large 2-stroke diesel engine consists of steel chocks and hydraulically tightened holding down bolts. When carrying out routine maintenance of the arrangement which method, from those given in the options, should be adopted to check that it is in good order.

A : Check the hydraulic release pressure for the holding down bolts.

MLKK : What documentation must the Master inspect when signing on a new officer?

A : The Certificate of Competency (or equivalent), the seaman's discharge book, the medical certificate and additional qualifications for specific types of ship e.g. tanker, high speed craft

MLRU : In shallow water a ship will experience "Squat". What are the principle reasons creating the effects of squat?

A : Increased velocity and decreased waterpressure around the ship's hull



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

MLRU : In shallow water a ship will experience "Squat". What are the principle reasons creating the effects of squat?

A : - There is an increase in the water velocity and a decrease of water pressure around the ship's hull

MLRW : Indicate the correct name for the part marked on the sketch:

A : Connecting rod

MLYC : What is a "colander" used for?

A : To drain the water off food.

MMCW : You are part of a team of two First Aiders in a resuscitation situation. What is the rythm of resuscitation with two First Aiders?

A : 5 compressions after every 1 inflation

MMGB : Which of the following two digits codes is used to obtain maritime assistance ?

A : 39

MMMU : If your vessel is fitted with wires on self-stowing split drum winches, the advantage of having these split drum winches is:

A : All the listed alternatives

MMMx : A thermistor may be used to measure temperature. Which of the following descriptions most accurately describes this device?

A : Temp sensitive semi-conductor

MMOD : Which of the following is the correct English spelling?

A : Ingredients.

MMON : The Training Manual shall contain instructions and information on the life-saving appliances and the best method of survival. The training manual shall contain detailed explanations of crew duties in relation to emergency situations. Which of the following tasks or duties shall be included in the manual according to present regulations?

A : The method of release from launching appliances.

MMPK : When you are calibrating an instrument what is the most common first step in the procedure ?

A : Adjustment of Zero-point and span

MMPK : When you are calibrating an instrument what is the most common first step in the procedure (consult the manual)

A : Adjustment of Zero-point and span



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

MMXG : Where are the two places that a hydraulic cargo pump can be started from?

A : Locally at the pump on deck and remotely from the cargo control room.

MMXG : Where are the two places that a hydraulic cargo pump can be started from on a chemical tanker?

A : Locally at the pump on deck and remotely from the cargo control room.

MNBE : What does 'wedging' achieve in side-rolling hatch covers?

A : It forces the compression bar on one panel to fit against the seal on the opposite panel

MNBE : What does wedging achieve in side-rolling hatch covers of a bulk carrier?

A : It forces the compression bar on one panel to fit against the seal on the opposite panel

MNGY : When 3 phase alternators are operating in parallel, it is very important that the reactive load is evenly shared so that the total alternator loads are evenly shared. If the total alternator load is the vector sum of active and reactive loads, which side of the vector diagram (power triangle) shown represents the reactive load?

A : (Y)

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A : (Y)

MNHS : When adjusting the valve clearance between rocker arm and pushrod, the cams on the camshaft for each cylinder shall be:

A : Negative

MNID : On a Container vessel, with regard to the IMDG Code what do Calcium Oxide (UN No. 1910), Magnetized Material (UN No. 2807), Sodium Aluminate (UN No. 2812) and Battery Powered Equipment (UN No. 3171) have in common?

A : They are not subject to the provisions of the IMDG Code but may be subject to provisions governing the transport of dangerous goods by other modes

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CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

MNIN : Whilst in the Engine room you hear the CO2 release alarm, what action if any should you take.

A : Leave the engine room as quickly as possible, closing all doors behind you.

MNLP : What hazards are associated with the carriage of a bulk carriage of coal slurry?

A : This cargo is a low fire risk under normal conditions

MNLP : What would happen if cement were to be stowed in a compartment together with ammonia or its sulphate?

A : The cement would become quick-setting in character

MNNO : How is the opening pressure (setpoint) adjusted in a fuel injector valve ?

A : By spring.

MNOM : What are the GMDSS sea areas?

A : A1,A2,A3 and A4

MNQU : The legal type VHF-antenna has a length of:

A : 1 meter

MNXM : What is the name of the simplest hydrocarbon composed of one carbon atom and four hydrogen atoms?

A : Enough capacity to secure a certain draft.

MNXU : Which of the following cargoes would normally require surrounding empty cargo tanks, void spaces and ballast tanks on a chemical tanker to be inerted prior to loading and maintained in that condition while the cargo was on board?

A : Propylene Oxide.

MNXU : Which of the following cargoes would normally require surrounding empty cargo tanks, void spaces and ballast tanks to be inerted prior to loading and maintained in that condition while the cargo was on board?

A : Propylene Oxide.

MNYK : Which position is the best to stop bleeding from the nose?

A : Sitting on a chair, leaning forward, with two fingers pressing the nose together.

MOBB : What is the general requirement for the closing mechanisms of the inlets and outlets of all the ventilation systems?

A : Closing must be possible from outside the spaces being ventilated



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

MOCN : Which of the following has the highest iron content per 100 grams?

A : Liver

MODM : When testing a overhauled fuel valve, the test pump is to be operated as follows:

A : Pushed by sufficient force to accurately check the correct opening pressure

MOGR : Under what circumstances may a watch-keeping engineer normally undertake other, non-watchkeeping duties?

A : When he is properly relieved.

MOGR : Under what circumstances may a watch-keeping engineer normally undertake other, non-watchkeeping duties?

A : When they have been properly relieved of their watch-keeping duties.

MOGR : Under what circumstances may a watch-keeping engineer undertake other duties?

A : When they have been properly relieved of their watch-keeping duties.

MOGR : Under what circumstances may a watch-keeping engineer undertake other duties?

A : When he is properly relieved.

MOLK : On a RoRo vessel, when cargo has shifted at sea, what could help in reducing acceleration forces?

A : Operating anti-heeling devices

MOLK : When cargo has shifted at sea what could help in reducing acceleration forces?

A : A.Operating anti-heeling devices

MOMN : A wire aerial for an MF/HF –transmitter must be suspended between
i s o l a t o r s :

A : to prevent contact with earth

MONM : What is the name of this unit?

A : A hydrostatic release unit

MOQU : If some of the passengers are disabled, i.e. using wheelchair, cane, blind etc. What precaution should the crew take?

A : All passengers that will require some form for assistance in case of evacuation, etc. must be registered, so there can be sent crew to assist them if needed.



MOSN : The INMARSAT A Mobile Earth Station Identification Number (IMN) consists of:

A : seven digits, beginning by 1

MPAB : On the figure 4 possible definitions of the term "PANAMA LEAD" are given. Which one is the correct one?

A : Panama lead is given by C on the figure

MPAV : A distress-alert call from an RCC or coast-station, preceding distress alert relay, begins with:

A : MAYDAY RELAY (3x)

MPHE : To correctly interpret the readings on the printout from a reefer vessel's cargo data logger it is essential to have some knowledge of the location of the temperature sensors. Where would the temperature sensor for the delivery air to a cargo hold be expected to be located?

A : In the air flow path from the cooling coils, about 3 metres from the coils.

MPQW : A combustible gas indicator of the catalytic filament type is used to check the atmosphere in an enclosed space onboard ship. When taking readings in a fuel tank which has been emptied for cleaning the meter reading initially rises and then falls back to zero. What is the likely defect, if any, in the instrument when this type of behaviour is displayed?

A : The filament is contaminated due to too high a concentration of hydrocarbons.

MPTB : What indicates that lube oil has been diluted by fuel oil?

A : A change in the viscosity of the mixture.

MPUV : A battery of 24 Volt supplies during 10 hours a current of 6 ampere. What is the capacity supplied:

A : 60 Ah

MPVT : On a RoRo vessel, why is it recommended to release the air from cargo unit pneumatic suspension systems before lashing them

A : To avoid the lashings becoming slack during the voyage as the unit will loose or drain air

MPVT : Which of the following cargoes will easily tip over in heavy weather?

A : Transformers and machinery shipped in high wooden crates

MPVV : Which one of the listed requirements regarding the general emergency alarm system do not correspond to present regulations? The general emergency alarm system shall:

A : be capable of operation from fire stations aboard the ship

MPVY : Conventional reefer vessels are usually designed with fine lines and large flared bows. Consequently, in adverse weather conditions, especially from forward of the beam, the navigating officers need to be mainly aware of which of the given options?

A : This type of vessel is prone to large hull deflections which may result in structural damage.



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

MPWT : If making a new pilot ladder onboard, which of the following ropes would you use in its construction as side ropes on which the steps are fastened?

A : Uncovered manila rope.

MPYB : Which of the following tinned products should be kept in cold storage?

A : Peaches

MPYD : At what latest time shall doors, sidescuttles, gangway doors, cargo- and coaling ports and other openings which are to be kept closed watertight at sea be closed at the start of the voyage?

A : Before leaving the port

MPYH : What does the Captain think about the Chief Mates question?

A : He wants the OS to train as helmsman today, because they are sailing in open waters and there is not much traffic in the area

MPYI : Which of the following actions will most effectively prevent fire in a cabin?

A : Ensuring that all persons avoid smoking in bed.

MQBS : What are the duties of the master, specially stated in the NIS act chapter 3?

A : To make a copy of the NIS act and the CBA accessible to the crew if referred to in a contract

MQFA : In a smoke filled alleyway where will the cleanest air be found, and how should you proceed out?

A : Near to the deck, crawl out keeping your face as near to the deck as possible.

MQIM : The diagram shows the lead of a rope during mooring operations and the possible point where it may break. Where would be considered the safest place to be standing?

A : Outside the coloured zone.

MLK : A conventional reefer vessel is to have its refrigerating capacity increased by fitting a power pack consisting of a diesel engine and generator housed in a twenty foot container. Which of the options given would be the best location to stow the 'power pack'?

A : On the main deck, well clear of any fresh air inlets.

MQPV : To accommodate expansion of piping on the deck of a chemical tanker the following are fitted:

A : Natural bends at intervals?

MQPW : What English name is given to the "growth" that develops on foodstuffs that have been imptoperly stored over a long period?

A : Mould



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

MQPW : What English term is given to the "growth" that develops on foodstuffs that have been imptoperly stored over a long period?

A : Mould

MQQP : The training manual shall contain instructions and information in easily understood terms and illustrated wherever possible. Which one of the following objects do not have to be explained in detail in the manual according to present regulations?

A : The use of onboard communication systems

MQSF : Which one of the given requirements regarding survival craft muster and embarkation arrangements do not correspond with present regulations?
(S O L A S
I I I / 1 1)

A : Searchlight to be provided at the launching station

MQXC : On a Container vessel, where do OSHA regulations apply?

A : United States of America

MQXC : Where do OSHA regulations apply?

A : United States of America

MREW : Can you stow Acrylonitrile adjacent to Caustic Soda ?

A : No

MRFP : How should pipes, rails and road sections be stowed?

A : Always in the athwartships direction

MRFP : How should pipes, rails and road sections be stowed on a ro-ro vessel?

A : Always in the athwartships direction

MRFP : On a RoRo vessel, how should pipes, rails and road sections be stowed?

A : As described by the cargo securing manual

MRJA : When one ship is unmooring from another which is at anchor, the unmooring crew should be instructed to cast off lines:

A : As and when the manoeuvring vessel instructs them to do so.

MRJS : Which one of the listed requirements regarding lifeboat fittings do not correspond to present regulations? All lifeboats shall be fitted with:

A : a remotely operated steering arrangement



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

MRNI : What is the main purpose of having a deaerator in a boiler feed water system?

A : Removal of excess oxygen in the feed water.

MROO : Pitting corrosion is found around the steam drum water line of a high pressure steam boiler. From the options given, select the one most likely to cause this condition.

A : Dissolved oxygen levels are too high.

MRSN : Some large slow speed diesel engines have jack bolt arrangements for retaining the main bearing top keep in place rather than the more conventional stud bolts. How does this arrangement affect the maintenance and checking procedures for the tie rods on the engine?

A : The tie rods should be fully tensioned before the jacking bolts are loaded to avoid

MRTW : Which Part(s) of the book "Excerpts from the Norwegian Passenger and Cargo Ship Legislation, etc" deal(s) with Regulations concerning arrangement and keeping of Ship Log Books/Control Register?

A : 17.

MRTW : Which Part(s) of the book "Excerpts from the Norwegian Ship Control Legislation" deal(s) with Regulations concerning arrangement and keeping of Ship Log Books/Control Register?

A : 17.

MRWE : Anyone of the crew who is assigned to watch duties in ports has a number of important tasks to carry out. Which one of the listed tasks has to be included in the watchmans duties?

A : Checking the moorings for tightness/slack.

MRXG : By DUAL WATCH in maritime VHF-communication is understood:

A : to keep a listening watch on two channels more or less simultaneously

MSAX : Fluid flow is measured using a pneumatic differential pressure transmitter and is indicated on a direct reading instrument. The indicator is reading zero even though fluid is flowing through the system. When the flow rate changes the indicator initially registers a reading but then gradually returns to zero. From the options given select the probable cause of this condition.

A : Diaphragm in the differential pressure transmitter is perforated.

MSCB : You are on watch during a ship to ship petroleum cargo transfer operation. An electrical storm is observed in the close vicinity, approaching the ships position. What is the recommended procedure?

A : Suspend all cargo transfer operations and close vents valves from the cargo system.

MSCD : On routine daily inspection you notice that there is a light arcing between an alternators carbon brushes and rotor sliprings, with alternator operating at 70% load. Should you:

A : Check the surface of the sliprings, polish if necessary and bed in the brushes

MSCD : On routine daily inspection you notice that there is a light arcing between an alternators carbon brushes and rotor sliprings, with alternator operating at 70% load. Should you:

A : Check the surface of the sliprings, polish if necessary and bed in the brushes



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

MSDF : When planning bunkering operations it is preferable to arrange for the new fuel to be bunkered into empty or nearly empty tanks whenever possible. What is the main reason for this?

A : To minimise the risk of incompatibility between different fuels.

MSHH : Which of the following action must imperatively be carried out before the central gas extinguishing system is used on a fire in engine rooms, cargo holds or other confined spaces?

A : Make sure that the compartment has been evacuated

MSHI : You are towing a vessel. The total length of the tow is 190 meters. What daylight signals are to be used?

A : No need of any signal

MSIC : In a distress situation and immediately after the distress signal has been sounded, what next action should be taken by the officer on duty?

A : Use the intercom to inform crew and passengers of the reason for the alarm.

MSID : The ship recommends a cow pressure of 9 bar. Where do you find this recommendation on your vessel?

A : The vessel's cow manual.

MSJT : What kind of permits have to be obtained before starting cold work in tanks?

A : Cold work permit + Permit for entry .

MSLO : How often shall each member of the crew participate in an "abandon ship"-drill?

A : Once every month

MSMI : What equipment and accessories are provided in a liferaft to help you keep warm in cold weather ?

A : the floor of the raft has a second layer which can be inflated to help insulation, in addition to the thermal protective aids (10% of complement, minimum 2)

MSPP : According to the rules of GMDSS, on behalf of safe navigation a listening watch should be Kept on:

A : VHF-channel 13 in the areas where the master deems it necessary

MSQK : Which Act has a provision that reads as follows: " The shipmaster shall take care that a copy of this Act and of the regulations issued in pursuance of the Act is to be found on board" ?

A : The Seaworthiness Act.

MSSY : On the MF/HF transmitter-receiver there is a volume control. Another name for this is:

A : AF-gain



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

MSTW : When discharging a liquefied gas carrier it is normal to leave a small amount of liquid cargo in the tanks. This is then used to help keep the cargo tanks cold on the ballast voyage. What is the normal term used for this small quantity of cargo that is left in the tanks?

A : The heel

MSTX : What precautions must be taken prior to loading cement after carrying sugar?

A : No traces of sugar should remain in the cargo holds

MSVK : A lifejacket should be provided with:

A : A whistle and a light

MSXD : When filling departure ballast on a clean ballast tanker, which valve is the last to be opened after the pump has started (M/T «Seagull» is equipped with steam driven centrifugal pumps).

A : The sea chest valve.

MSXE : When there is doubt about the freshness of the atmosphere in enclosed or confined spaces, what action should be taken?

A : Arrangements should be made for testing of the atmosphere to ensure maintenance of 21% oxygen of the space

MSXR : What are the advantages of ballasting double bottom ballast tanks by gravity filling on a Bulk Carrier?

A : There is minimum pressure head on the tank top and pumps are not required

MTBD : When unloading a generator, it is necessary to gradually decrease the load in order to avoid:

A : Undue overspeeding.

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MTDB : What would be the correct definition of the term "Squat"?

A : Increase in draft to the point on your ship which is closest to the bottom

MTDD : What is the correct name of the part highlighted in the sketch?

A : Fuel injector

MTDT : Give the meaning of the following symbol

A : Start engine



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

MTDW : What is the separator's intention?

A : To remove solids, water and sludge.

MTHF : On a Container vessel, which document should be consulted for guidance with respect to lashing containers onboard own vessel.

A : The Cargo Securing Manual

MTMD : The nationality of a ship can be determined by means of:

A : the MMSI

MTNX : What does Solas 74, chapter III, regulation 9 refer to concerning notices onboard?

A : Operating instructions for life-saving appliances.

MTQH : Which of the following requirements corresponds to present regulations? (NSCL 4/11.1)

A : During embarking and disembarking the driving ramp shall be securely locked to the recess of the ferry.

MTSB : What is the meaning of the letters "TEU"?

A : Twenty foot equivalent unit.

MTSB : What is the meaning of the letters "TEU" with reference to container ships?

A : Twenty foot equivalent unit.

MTSB : When would you not expect large roll amplitudes on a Panamax container ship?

A : When the ship is experiencing seas 45° on the bow.

MTTQ : Which of the following is true when comparing Plate Type with Shell and Tube Type Heat Exchangers?

A : All of these.

MTYB : Who must make and sign the individual entry for a loading, discharging or cleaning operation in the Cargo Record Book?

A : The officer (or officers) in charge of that operation.

MUIU : On a container vessel, where should a container containing Calcium Hypochlorite be stowed?

A : On deck, away from sources of heat



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

MUIU : Where should a container containing Calcium Hypochlorite be stowed?

A : Away from sources of heat

MULC : On most passenger ferries there is no requirements regarding passenger muster exercises. What is the most effective ways of informing embarking passengers.

A : Information about muster station on boarding card, poster in cabins, safety video running continuous.

MUNB : Who is responsible for the safe keeping of the ships documents?

A : Master

MUNO : What is the main reason for crewmembers to practice search and rescue operations on ships in an emergency?

A : Passengers seek safety in their cabins, or in other places onboard, where they think they can escape danger.

MUNT : If a fire starts in the fuel tanks of a vessel, the fire will be ?

A : a class B fire

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MUOS : Furniture in stairways and corridors shall be kept to a minimum on board passenger ships, why?

A : Escape routes must be clear of obstructions and also due to fire protection

MUPE : If the temperature decrease, what will happen with the interface in the bowl ?

A : Broken water seal, oil outside the top disc.

MUSB : Which of the following statements is correct with regard to IMDG Class 4 (flammable solids) cargoes loaded on a General Cargo vessel?

A : The goods require protection against movement and can only be loaded if a cargo declaration is supplied by the shipper

MUSR : In a distress situation, how many times or for how long should the emergency alarm signal be sounded?

A : Until all crew members and passengers have reported to their respective muster stations

MUTR : What are the operational requirements for a fast rescue boat?

A : It shall be served by a suitable launching appliance to launch and retrieve the boat even under severe adverse weather conditions



MUUI : Which class of emission is used for VHF radio telephony transmissions ?

A : G3E

MUVD : Cross-flooding fittings shall be operable from:

A : Above the bulkhead deck

MUVI : Anyone of the crew who is assigned to watch duties in ports has a number of important tasks to carry out. Which one of the listed tasks has to be included in the watchmans duties?

A : Checking the moorings for tightness/slack.

MUWD : What is the approximate content of oxygen in air?

A : 21%

MUWW : Thermocouples are often used for measuring temperatures. Which of the following descriptions are valid for a thermocouple?

A : A junction between two dissimilar metals generates a small voltage.

MUWW : Thermocouples are often used for measuring temperatures. Which of the following descriptions explains the principle of operation of a thermocouple?

A : A junction between two dissimilar metals generates a small voltage.

MUXR : If a recipe requires that a dish be "poached", what does this mean?

A : Cooked gently in a simmering liquid.

MVDM : In the public radio-traffic a radio telephony collect call is:

A : a collect call

MVGA : For which of the following groups of substances or materials is the use of water as an extinguishing agent dangerous?

A : Sodium hydrosulphite , potassium hydroxide, magnesium

MVGB : In a fixed gas fire-extinguishing system

A : All the answers are good

MVGK : What is the maximum allowable filling limit on cargo tanks on gas carriers?

A : 98%.



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

MV GK : What is the maximum allowed filling limit given by IMO for the cargo tanks of LNG carriers?

A : 98%.

MV IB : Which of the given options is a common alternative name, or synonym, for Methane?

A : Marsh gas.

MV IB : You know any synonym for Methane?

A : Marsh gas.

MV JI : What is polymerising?

A : Polymerisation take place when a single molecule react with another molecule of the same substance to form a dimer

MV NV : B

A : 30 minutes.

MV PG : You are in charge of discharging and crude oil washing a crude oil carrier. What is the maximum allowed oxygen level measured one meter below deck in a tank during crude oil washing? (IMO Reg)

A : 8 %

MV PG : You are in charge of discharging and crude oil washing operation on a crude oil carrier. ISGOTT requires that the atmosphere is measured in two places before washing of a tank is commenced. One is the middle of the ullage space but what is the other?

A : 8 %

MV PI : What does the term DISCHARGE mean, as used in the Oil Pollution Regulations?

A : All the other alternatives

MV QI : You are carrying out a search in a smoke filled room wearing BA. How would you conduct this search?

A : Carry out a right or left hand search and proceed carefully feeling the area in front with the foot and using the back of the free hand to check the area in front.

MV RR : Following overhaul of the cylinder units of a 4-stroke diesel engine and a suitable running in period it is noted that the lubricating oil consumption of the engine has increased considerably and unexpectedly. The engine is otherwise running normally. Select, from the options given, the most likely cause of this problem.

A : The oil control ring has been fitted incorrectly.

MV RR : Peak pressures and exhaust temperatures taken from a high speed diesel engine shown an unacceptable variation between cylinders. Compression pressures for the cylinders are approximately even. High pressure fuel is supplied to the fuel injection valves by an inline monobloc pump. From the options given which is the most likely defect to cause this problem?

A : The inline monobloc fuel injection pump is incorrectly calibrated.



MVSL : Thermo-elements will typically have

A : Relatively wide range of temperature measurement

MVST : How many rocket parachute flares are carried in each lifeboat?

A : 4

MVTM : Which of the following features is required for an anti-exposure suit ?

A : has a lateral field of vision of at least 120°

MVUN : Most maintenance and repair tasks carried out onboard ship require a permit to work which will include a full risk assessment. Where would an engine room rating find out about the precautions that are required as a result of the risk assessment for a particular task?

A : Ships Safety Management Manual (ISM Code procedures)

MVVV : The ship has a single fixed pitch right-handed propeller and is going astern as illustrated. What is the most likely way the ship will react in these circumstances?

A : The stern will "back" into the wind

MVWC : A General cargo vessel is due to resume loading at 0700 Local Time; start of operations is delayed due to hatch covers not being opened until 0800; what are the implications of this delay to the ships?

A : Additional costs due to delay may be to ships account

MVYL : When using an electric dishwashing machine, is it necessary to pre-wash the dishes?

A : It is recommended, especially when dishes are heavily soiled.

MVYO : Mariphone channels for ship-ship traffic are working on the following principle:

A : simplex

MWAH : Indicate the correct name for the tool on the sketch:

A : Water Pump Pliers

MWIT : The number of oscillations of a wave per seconds is called :

A : Frequency

MWJL : Can unrestricted tank cleaning operations take place from a chemical tanker in almost any sea area? Read all the following statements carefully and consider the reasons behind the answers as shown.

A : No. The type of previous cargo, the amount of residues, the ships speed, the distance from the nearest land, the depth of water and whether the ship is in a "special" sea area are all factors



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

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MWJP : Is it required to have supplementary emergency lighting on board ro-ro ships?

A : Yes, all passenger public spaces and alleyways shall be provided with supplementary electric lighting

MWLB : The image shows an arrangement of electronic components which is often used for a particular reason. What is this type of circuit usually called?

A : A zener barrier. (Positive)

MWLW : Which one of the listed requirements regarding liferafts do not correspond to present regulations? Every liferaft shall be so constructed that:

A : its canopy has viewing ports in all directions

MWOJ : Which of the following features is required for an anti-exposure suit ?

A : covers the whole body with the exception of the head and hands and possibly feet

MWSD : A General Cargo vessel has 50 tonne SWL heavy lift derrick; a load of 48 tonnes is to be loaded ;the lifting gear of slings and spreader bar weighs 4 tonnes ; which of the following statements is correct?

A : The load cannot be loaded because the combined weight of the load and the lifting gear will exceed the SWL by two tonnes

MWVC : By propagation in radio-traffic is understood:

A : the way in which radio waves travel are propagated

MWXV : The refrigeration system for the ships provisions consists of a number of cold rooms served by a central refrigeration system. The evaporator coils for the vegetable room are found to be frosting up even though the room is down to temperature and the liquid line valve has closed. Select, from the options given, the automatic control component which is likely to be malfunctioning and so cause this condition.

A : Back pressure control valve.

MXAH : Following repair and refitting of the seawater pipe for the fresh water generator feed line the rating assisting with the work notices that one of the flange joints is leaking. What action should be taken by the rating?

A : Check the bolts are correctly tightened before informing the engineer so that the flange faces can be cleaned and re-jointed if necessary.



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

MXEE : The smoke detector (fire indicator) indicates a fire in a cargo hold loaded with general cargo; this is immediately followed by a heavy smell of fire. What action should be taken first?

A : Close the ventilation system and other openings to the hold in order to choke the fire

MXFW : What does this crane signal indicate?

A : Hold

MXGR : What could be the most probable cause to an abnormal lubricating oil pressure?

A : The oil relief valve on the cylinder block or the safety valve in the oil pump is sticking.

MXGV : If circumstances permit, how should low expansion foam be applied to oil burning in the bilges of the engine room?

A : The foam should be directed towards the bulkhead behind the fire and allowed to spread out slowly over the fire

MXIK : What is the meaning of this symbol ?

A : Lower lifeboat to water

MXIO : Cleaning is hard work and could be hazardous to one`s health if no precautions are taken. What should one do?

A : Always use correct working techniques for all cleaning duties.

MXKY : What will You do if the plate exchanger leaks after cleaning and is back in service. (The measurement A is tightened to minimum measurement.)

A : Dismantle the exchanger and check or renew the rubber packings.

MXLU : Passenger ships have a normal requirement of 1 lifejacket per person + 10% for children. In addition to this, how many lifejackets have to be stowed in conspicuous places on deck or at the muster stations?

A : 5% extra

MXLY : Use Kirchoffs voltage law and Ohms law to calculate the voltage V(2) across the resistance R(2).

A : 4,5 V

MXLY : Use Kirchoffs voltage law and Ohms law to calculate the voltage V2 across the resistance R2.

A : 4,5 V

MXOG : If the subject is subject to manning control, which documentation must the master have at hand?

A : Master's record and Documentation file.



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

MXSP : On the MF/HF transmitter-receiver there is a sensitivity control. Another name for this is:

A : RF-gain

MXTI : Which part of the float-free arrangement for inflatable liferafts is made to free the container of the liferaft from its berth during the ship is sinking?

A : the hydrostatic release unit

MYBP : In radio telephony what is the "URGENCY CALL" which should be used to indicate that you have a very urgent message to transmit concerning the safety of another vessel or person?

A : Pan Pan (3 times)

MYBQ : Give the meaning of the following symbol

A : A class division

MYBR : What are we calling materials with same molecule formula, but the properties are different because the atom structure is different?

A : Total pressure head

MYDH : A PH scale (meter or strip of paper) has values from 0 to 14. Which value is neutral?

A : 7

MYDJ : In maritime radio traffic sea area A2 is considered a sea area:

A : where reliable radio communication can be established with the use of a DSC on the MF frequency of 2187.5 kHz with one or more coast stations

MYFX : Referring to the SOLAS convention, how often should a crew member on a cargo ship participate in one abandon ship drill and one fire drill?

A : Monthly

MYGV : What is an independent cargo tank ?

A : It's a cargo tank where all piping or venting piping are separated and in not connected to other systems.

MYGW : If you detect a fire on board the ship, dependent on the situation, which of the following actions is the first to be taken?

A : Raise the fire alarm.

MYIU : What area of an ordinary cooks knife is most likely to contain trapped particles of food and will require particular attention when it is being washed and cleaned?

A : The area where the blade is fitted into the handle.



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

MYIU : What area on an ordinary cooks knife is most likely to contain trapped particles of food and will require particular attention when it is being washed and cleaned?

A : The area where the blade is fitted into the handle.

MYJB : Which of the following duties shall be included in the "muster list" as being assigned to crewmembers in relation to passengers ?

A : controlling the movements of passengers.

MYNK : Public correspondence MF communications should normally be operated :

A : In J3E mode - on simplex basis

MYPX : Exemption to serve as master on board a NIS ship for Non Norwegian citizens needs to be given by:

A : The Norwegian Maritime Directorate

MYUS : In discussing the properties of chemical cargoes, what is the "Odor Threshold" of a product?

A : You will be able to smell the presence of the actual gas if the concentration is 5 parts per million or more.

MYYD : How many rocket parachute flares are carried in each liferaft?

A : 4

NAAN : Medium and high speed diesel engines used for marine propulsion normally require a reduction gearbox to be fitted in order to achieve suitable output speeds for the propeller. What device is normally required in the drive arrangement in order to avoid damage to the gearing due the torque variations of the diesel engine output?

A : A flexible coupling.

NADF : Some specialised vessels, mainly those involved in the carriage of fish, are capable of carriage temperatures as low as minus 60 degree Celsius. From the options given select the one that best describes why such low temperatures are used.

A : At minus 62 degrees Celsius the eutectic point is reached and all water in the cells is frozen.

NADK : Some liquefied gas carriers are fitted with cascade type direct cooling plants to meet cargo vapour reliquefaction requirements. What is the cargo vapour normally condensed against in a cascade type cooling plant?

A : The cargo vapour is normally condensed against freon in a cascade cooling plant

NAJH : What is Hypothermia and how is it cured?

A : Body temperature below 35C / Heat the body

NAJJ : What is meant by settling in slop handling?

A : Separation of water and oil.



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

NAKT : As a means of securing containers why are twistlocks preferred to cone-based lashing systems?

A : Because cone-based lashing systems are more prone to failure than twistlocks

NAKT : On a Container vessel, why are twistlocks preferred as a means of securing containers compared to cone-based lashing systems?

A : Because cone-based lashing systems are more prone to failure than twistlocks

NASM : The exhaust temperature in a 4 stroke diesel engine is:

A : increasing with poorer cooling of the air in the air cooler.

NASN : What arrangement may be installed in passenger ships to reduce unsymmetrical flooding in damaged condition?

A : Cross flooding arrangement

NAUC : Where would you look to find details of the crude oil washing system, its equipment and operating procedures?

A : To fill up the lines slowly.

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A : To fill up the lines slowly.

NAWY : Which one of the listed requirements regarding the stowage of a survival craft do not correspond with present regulation? (SOLAS III/13. Each survival craft shall be stowed:

A : so that neither craft nor stowage arrangement interfere with the general operation of the ship

NAFY : How can you arrange for safe movement of passengers on ro-ro decks?

A : Passengers should be warned of vehicle movements when entering or crossing car or vehicle decks. They should preferably keep to walkways while moving about the ship.

NBBP : Which of these actions should you take if your ship is successfully boarded by armed pirates?

A : Assure your captors that you're not planning an attack to overthrow them.

NBCP : Name some heat exchangers that are used in cargo handling onboard a gas carrier

A : Cargo heater, cargo condenser, freon condenser, vaporiser, super heater, oil coolers, intermediate cooler

NBEB : A chemical tanker will carry cargoes of allyl alcohol, benzene, and propanolamine. Which of the following is true?

A : Allyl alcohol is incompatible with propanolamine but both are compatible with benzene.



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

NBFY : What personal protective equipment would be required for mooring operations

A : It would be determined by risk assessment, but at very least would comprise safety line and harness, lifebuoy standing by, safety hat, boiler suit safety boots.

NBFY : What personal protective equipment would be required for rigging an accommodation ladder whilst the vessel is underway?

A : It would be determined by risk assessment, but at very least would comprise safety line and harness, lifebuoy standing by, safety hat, boiler suit safety boots.

NBFY : What personal protective equipment would be required for work overside?

A : It would be determined by risk assessment, but at very least would comprise safety line and harness, lifebuoy standing by, safety hat, boiler suit safety boots.

NBJG : How is body language generally communicated?

A : the way you stand, gesture, and walk

NBKB : You are Sen.Off.Deck on a laden tanker which has collided with a smaller vessel. What should your first action be?

A : Identify the extent of damage to own vessel and take necessary steps to safeguard the complement and the vessel.

NBNV : The wooden hatch gratings (Warkhaus boards) use on the deck of some conventional reefer vessels can become badly damaged during cargo operations, particularly when forklift trucks are being used. Which one of the actions given in the options is the most appropriate to take when considering repairs to these gratings?

A : Use a whole new board whenever possible to achieve the greatest strength.

NBOJ : In a liquid fire the surface of which is about 100m?,

A : Flames are usually higher than the diameter of the fire

NBQV : On the figure 4 possible definitions of the term "BUOY LINE" are given. Which one is the correct one?

A : Buoy line is given by A on the figure

NBQX : What is the correct understanding of the term "Bending moments" when applied to ships?

A : Forces which bends the vessel up and down in the fore-aft direction (hogg/sagg). fore-and-aft direction (hogg/sagg).

NBQX : What is the correct understanding of the term "Bending moments" when applied to ships?

A : The longitudinal Bending Moment at any section within the ship is the total moments

NBRR : Under what conditions would a Marine Officer of the MCA detain a vessel?

A : If during a Port state or Flag state visit, or whilst carrying out a safety survey or in the event of an accident or incident and it is discovered that essential safety gear is inoperative or missing.



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

NBSF : On area A3 the function "Transmission and reception of on scene communications" is mainly based on:

A : the use of MF and/or VHF R/T

NBSU : On a RoRo vessel, which of the following is likely to tip over in heavy weather?

A : Cargoes with high centres of gravity

NBSU : Which of the following is likely to tip over in heavy weather?

A : Cargoes with high centres of gravity

NBTI : A ship is not turning around the center of gravity, but another point. What is the point called?

A : Pivot point

NBUV : The engine room rating has been assisting with ballast operations during a period of engine room watch duty. Ballast operations have stopped for a couple of hours while stores are being taken. What action should the rating take during this break in operations?

A : Stop all of the ballast pumps and close all of the ballast valves as soon as operations are stopped. Ballast lines should always be closed except when they are being used.

NBWW : A consignment of steel drums containing IMDG Class 8 cargo are about to be loaded in the hold of a General Cargo vessel; a number of drums are leaking slightly, what action should be taken?

A : The cargo consignment not be loaded at present; the Chief Officer must be informed and make final decision if the cargo is to be rejected

NCAP : How can the effects of 'lateral drag' be reduced when loading heavy machinery?

A : By a controlled and very slow loading operation

NCDF : If the heat transfer capacity in a heat exchanger is dropping, the following action should be taken:

A : Clean the heat transfer surface

NCKV : When taking a compass error by amplitude in the higher latitudes when is the best time to take the bearing?

A : Calculate the time of the sunset and then take the bearing

NCKX : Why is an automatic slow turning feature included in the start air system of many large 2 stroke diesel engines?

A : To avoid damage during start of the engine in case water or other liquid has gathered in the cylinders during an extended stop.

NCMM : Which of the following hose lengths corresponds best to the most common ones found onboard?

A : less than 20m



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

NCMO : You are on a power-driven vessel underway in open water. This vessel is sighted on the port bow on a steady bearing. What kind of vessel is it and what will your action be?

A : B keeps clear of A

NCNE : This figure shows a transformer, with two windings, $N(1) = 2000$ and $N(2) = 1000$ turns, on a common magnetic circuit. Assume that there is no energy loss in the transformer itself. Calculate the current $I(2)$ when the current $I(1) = 2$ A.

A : $I(2) = 4$ A

NCOG : Which item among those below is included in the normal equipment of every liferaft ?

A : four rocket parachute flares

NCOX : This graphical symbol is a logic gate. Which gate?

A : OR

NCOX : This graphical symbol is a logic gate with truth table. Which gate?

A : OR

NCPA : What extra precautions should be taken by the officers and crew if some of the passengers are disabled, i.e. using wheelchair, cane, blind etc.?

A : All passengers that will require extra assistance, also in case of an emergency situation/ evacuation, must be registered in order to allocate crew to assist them if needed.

NCSI : What is the approximately flammable range for Methane?

A : 5.3 - 14.0 by volume.

NCSI : Which of the given options is the approximate value of the flammable range for Methane measured as a percentage volume in air?

A : 5.3 - 14.0 by volume.

NCTB : What is the meaning of this symbol ?

A : EPIRB

NCTQ : On a RoRo vessel, why is it necessary to maintain safety markings/luminous paint on pillars in ro-ro decks?

A : To prevent damage during cargo operations

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A : To prevent damage during cargo operations



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

NCUS : What is the general emergency alarm signal as specified in SOLAS ?

A : seven or more short blasts followed by one long blast

NCVR : A range of dangerous goods are to be loaded on a General Cargo Vessel; the segregation requirements of the cargo are given in which publication?

A : The IMO International Maritime Dangerous Goods Code

NCYE : At what calendar interval must cargo hoses in service on board a chemical tanker be tested and certified as fit to continue in use?

A : Every 12 months.

NCYE : At what calendar interval must cargo hoses in service on board be tested and certified as fit to continue in use?

A : Every 12 months.

NDAQ : On a RoRo vessel, where on board a ship will cargoes experience the least accelerations?

A : At the intersection of the fore and aft, athwartships and vertical axes of the ship

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A : At the intersection of the fore and aft, athwartships and vertical axes of the ship

NDBP : Which of the following is a characteristic of the warning signs required to be displayed on a tanker vessel while transferring any hazardous cargo?

A : The signs use black lettering on a white background

NDCQ : A ship is navigating in the Caribbean in August when it receives the warning of a Hurricane. To determine the centre of the storm the Master uses "Buys Ballots Law" and faces the wind. On what side of the Master would the low pressure area be located?

A : On the right side

NDFR : How would you ventilate your cargo holds when sailing from hot climate to cold climate?

A : Ventilate excessively?

NDGC : On a Container vessel, what do the letters PP mean within the IMDG Code?

A : Severe Marine Pollutant

NDGM : When an air compressor is going to be started it is important that the compressor is started with the "blow off" valves open. Why?

A : To ensure that we do not have any water assembly in the cylinders when the compressor start.



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

NDKP : Find the value of the voltage drop from terminal A to terminal B in this circuit:

A : - 38 V

NDKR : Which of the following cargoes are liable to spontaneous combustion?

A : Coal?

NDLP : Which of the following duties shall be included in the "muster list" as being assigned to members of the crew ?

A : use of communication equipment

NDLR : Which one of the listed requirements regarding lifeboat equipment correspond to present regulations? The normal equipment of every lifeboat shall include:

A : sea-charts and navigating equipment

NDLR : Which one of the listed requirements regarding lifeboat equipment do not correspond to present regulations? The normal equipment of every lifeboat shall include:

A : sea-charts and navigating equipment

NDMF : Describe the various stages to be followed in carrying out a disciplinary procedures

A : Informal warning(s), Formal warning(s), Dismissal,

NDOF : What kind of information do we get from a Mollier diagram?

A : We get information about enthalpy, specific volume of vapour, liquid/ vapour mixture, temperature of vapour when pressure is known etc.

NDOY : A particular vessel is equipped with the possibility to insert CO₂ in the scavenging air belt in case of uncontrolled fire. What are the actions to be taken in case of fire in the scavenging air belt?

A : Reduce the RPM to reduce the scavenge air temperature

NDOY : A particular vessel is equipped with the possibility to insert CO₂ in the scavenging air belt in case of uncontrolled fire. What are the action to be taken in case of fire in the scavenging air belt?

A : Reduce the RPM to reduce the scavenge air temperature

NDRH : If a passenger asks you a question you cannot answer, what will you do?

A : Tell the passenger that you will confer your colleagues and revert with an answer, or you bring the passenger along to a colleague who can give an answer to the question. Never say I dont know

NDTU : Some refrigerated cargoes can be more easily damaged than others due to rough handling. From the options given, select the cargo which is most likely to be damaged due to the use of poor handling techniques.

A : Chilled plums in cartons.



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

NDYA : A steam generating tube in a boiler is found to be badly sagged but not ruptured. Select, from the options given, the most suitable action to be followed in order to operate the boiler.

A : Plug both ends of the tube and drill a hole in the body of the tube.

NEAR : To choose the HF-band, the time difference between 2 stations:

A : is important

NEAR : To choose the HF-band, the time difference between 2 stations is:

A : is important

NEAW : Give the meaning of the following symbol

A : Secure hatches

NECK : On the figure 4 possible definitions of the term "AFT SPRING" are shown. Which one is the correct one?

A : Aft spring is defined as A on the figure

NEEW : According to SOLAS, every persons assigned to crew the rescue boat or assigned to the marine evacuation system party shall be provided with:

A : an immersion suit or an anti-exposure suit

NEGD : What is Breaking Stress with regard to cargo lashings?

A : The maximum stress that can be applied to a cargo lashing

NEGL : Your ship is operating with a right handed propeller. Before coming astern, how should you apply the rudder?

A : As with no. 2

NEJV : You are on board a cargo ship. The ship is heavily listing to starboard, making impossible the launching of the survival craft stowed on this side. Lifeboats and liferafts are equally distributed on each side of the vessel. What should be the total number of persons that can be accommodated in the remaining survival craft stowed on the port side ? (*) N is the total number of persons that vessel is permitted to carry.

A : at least 200 % N (lifeboat capacity: 100 % N

NELP : What are the prerequisites for a CBA (Collective Bargaining Agreement) to be applied to service on NIS ships?

A : That the CBA expressly states that it applies to NIS ships and is subject to Norwegian laws and courts of law unless courts of another country is explicitly mentioned.

NE NK : If a public announcement is made during an emergency you should?

A : Listen carefully and pass on information to passenger who may not have heard it or understood it.



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

NEOR : A very sensitive and valuable commodity is loaded into refrigerated container which is more than 12 years old. The container has been pre-tripped with all routine maintenance having been carried out to the refrigeration plant and sensors with parts being replaced as necessary and all functions appear normal. Which aspect of using this container is most likely to cause problems during the voyage?

A : Degradation of the insulation due to the age of the container leading to excess heat transfer through the walls.

NEQI : A young person joins the vessel i.e. someone less than 18 years old, what procedure must be followed when signing him on the Crew Agreement?

A : He would be signed in form ALC 1c

NEXX : In a distress situation, how many times or for how long should the emergency alarm signal be sounded?

A : Until all crew members and passengers have reported to their respective muster stations

NFBH : Which of the letter(s) indicate(s) that the regulations apply to "non-convention ships" only?

A : Letter b.

NFDQ : What does ISPM stand for?

A : International Standards for Phytosanitary Measures (code)

NFDQ : Which publication should be consulted for details on the separation of Dangerous cargoes on RoRo vessels

A : IMDG Code

NFDV : On a MF/HF-transmitter-receiver there is a volume control. Another name for this is:

A : LF-gain

NFFQ : Which one of the given requirements regarding survival craft muster and embarkation arrangements do not correspond with present regulations?
(S O L A S
I I I / 1 1)

A : Searchlight to be provided at the launching station

NFGJ : Give the meaning of the following symbol

A : Lower lifeboat to water

NFHA : How should steel wire rod coils be stowed?

A : With their cores aligned fore and aft

NFHA : How should steel wire rod coils be stowed on a General Cargo ship?

A : With their cores aligned fore and aft



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

NFPJ : What would be the most probable cause of a drop in lubricating oil pressure?

A : Lub oil cooler is clogged.

NFRF : When preparing the hold of a bulk carrier for cargo when that hold has previously been ballasted, which of the following must be checked

A : The ballast lines must be blanked off and the bilge lines opened and tested

NFSW : Which one of the listed requirements regarding the stowage of rescue boats corresponds to present SOLAS regulations. Rescue boats shall be stowed:

A : So neither the rescue boat nor its launching arrangements will interfere with any survival craft at any other launching station.

NFTP : Pollution Regulations require that each scupper in an enclosed deck area have a:

A : None of the other alternatives

NFTQ : How many thermal protective aids are required to be carried on vessels with open lifeboats?

A : One for each person on board who is not provided with an immersion suit

NFTW : What is meant by the term hold space in relation to a liquefied gas carrier?

A : Hold space is the space enclosed by the ship's structure in which a cargo containment system is situated

NFUP : Thermal protective aids are provided in any liferaft as follows:

A : either 10% of the number of persons the liferaft is permitted to accommodate or 2 whichever is the greater

NFVF : What would the Chief Officer require prior to the vessels departure from the berth?

A : He wants the anchor secured thoroughly

NFVG : After cleaning and back in service, You observe that the heat transfer is bad. What is the first thing to do?

A : Check for proper air vent of the exchanger.

NFVL : You notice the sump level in an engine has increased and no new oil has been added. What action would you take?

A : Stop the engine and check for a fuel or water leak.

NFVL : You notice the sump level in an engine has increased and no new oil has been added. What action would you take?

A : Stop the engine and look for a fuel or water leak.



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

NFWG : During inspection of the tween deck space of a reefer vessel it is observed that there is a gas tight seal fitted to the lids at the floor of the space. Which of the assumptions given in the options can be correctly made about the tween deck space, based on this observation?

A : It is separate from the space below.

NGAH : Which of the following detailed explanations should be mentioned in the Training Manual ?

A : The use of drogues

NGDS : Most fuel oil separators working on the centrifuge principle have an automatic start up and sludging facility. Which of the following actions would you expect to occur first during the start up sequence?

A : Operating water supplied to bowl to close it

NGFM : From which locations is it normally possible to close watertight doors?

A : Both local, remote from bridge and one emergency remote control station

NGFM : From which locations is it normally possible to close watertight doors?

A : Watertight doors can be closed adjacent to the door and remotely from bridge and also

NGLD : A bulk cargo has a stowage factor (S.F) of 1.50 cubic metres per metric tonne (m³/mt). If 1000 tonnes are to be loaded what volume will this cargo occupy?

A : 1500 cubic metres (m³)

NGNG : On a Container vessel, which of these statements is correct?

A : Under the Hague and Hague-Visby rules a ship owner must exercise due diligence to make the vessel seaworthy

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A : Under the Hague and Hague-Visby rules a ship owner must exercise due diligence to make the vessel seaworthy

NGOL : As regards the launching and recovery arrangements for rescue boats which is required among the following?

A : Rapid recovery shall be possible with the boat's full complement of persons and equipment

NGPG : What will happen in a purifier bowl if either; oil density, viscosity or flow increase

A : The interface moves outwards

NGPM : An inflatable lifejacket will inflate:

A : either automatically on immersion or by a single manual motion or by mouth



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

NGQJ : Which of the following hull shapes would normally provide a directionally stable ship?

A : A ship with a long, slim hull

NGST : What effect would increase of sea temperature have on your amount of cargo onboard?

A : Proportional increase - higher temperature - more volume.

NGTS : A High Breaking Capacity fuse found in a Main High Voltage Switchboard will have fault level rating of ?

A : 40 kA

NGTS : A High Breaking Capacity fuse found in a Main High Voltage Switchboard will typically have fault level rating of ?

A : 40 kA

NGWA : The obligation to identify oneself when using VHF is:

A : always

NGXP : Which one of the listed requirements regarding abandon ship drills corresponds to present SOLAS regulation?

A : Each lifeboat shall be launched with its assigned crew, and manoeuvred in the water at least once every three months during an abandon ship drill.

NGXU : Which, if any, are the restrictions for trading areas on NIS ship when cargo is concerned?

A : They may not carry cargo between Norwegian ports.

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A : They may not carry cargo between Norwegian ports.

NHFK : In ISGOTT, petroleum products are divided into two general groups for the purposes of indicating flammability, based on flashpoint and vapour pressure. These two groups are named Volatile and Non-volatile. To be considered Non-volatile, which of the following criteria must be met?

A : With a Flashpoint of 60 degrees C or above (closed cup method), these liquids produce, when at any normal ambient temperature, equilibrium gas concentrations below the Lower Flammable Limit.

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A : With a Flashpoint of 60 degrees C or above (closed cup method), these liquids produce, when at any normal ambient temperature, equilibrium gas concentrations below the Lower Flammable Limit.

NHGF : If diesel fuel contamination occurs in the crankcase oil of an auxiliary engine, the oil viscosity will:

A : Decrease.



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

NHIU : On a RoRo vessel, what is a low-bed Ro-Ro unit that is towed onto a ship called?

A : Mafi Trailer

NHIU : What is a low-bed ro-ro unit that is towed onto a ship called?

A : Mafi Trailer

NHLF : Who can request a formal "maritime inquiry" if a collision occurs between a Norwegian ship and a British ship?

A : Any one of The Norwegian Maritime Directorate or the shipowner or the master.

NHPH : Do we have to enter "internal transfer of cargo" in the Oil Record Book?

A : Should be informative for both operational parties?

NHUF : How is the pressure in the cargo containment system of a conventional LNG carrier controlled during normal operation?

A : By using the boil-off gas as fuel for the ships propulsion plant.

NHUF : How to control the tank pressure of a conventional LNG carrier during normal operation?

A : By use of the boil-off gas in the boilers as fuel.

NHUH : Which of the following watches must a vessel maintain when sailing in Sea Area A1?

A : A continuous DSC watch on Channel 70.

NHUI : Special types of periscopes are fitted to boilers to observe

A : smoke going out the stack

NHUU : The upper airway consists of:

A : Mouth, nose and throat

NIAX : Tests on the water in a low pressure boiler show the chloride level is 500 ppm. What action should be taken?

A : Blow down boiler and check condenser for leakage.

NIBB : Rigging of the Pilot Ladder and embarkation/disembarkation of a pilot shall be supervised by:

A : - A responsible Officer



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

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A : A responsible Officer

NIBB : Rigging of the Pilot Ladder and embarkation/disembarkation of a pilot should be supervised by:

A : - A responsible Officer

NIBX : What is one of the dangerous states a survivor may suffer from?

A : Hypothermia

NIDO : If you as duty officer see any damage done to the cargo by the stevedores, what shall you do?

A : Inform the stevedore superintendent, the chief officer, and write a damage report?

NIDQ : The distress message is used when the vessel is threatened by a serious and imminent danger and is in need of immediate assistance. What is the telegraphy and telephony distress message like?

A : S O S (Telegraphy) / MAYDAY (Telephony)

NIDR : You have checked the oil viscosity in an auxiliary engine with the viscosity test kit. The result shows that the viscosity is high. What will You do?

A : Clean the system and change the oil.

NIDT : When a fire breaks out in the accommodation, cargo holds or on deck, who is in charge of the fire fighting operations?

A : The person who is designated in the muster list

NIDW : Dunnage is extensively used when general cargo is being loaded; select from the options three main reasons for its use ?

A : To spread loads, to assist in securing and to allow good ventilation

NIGD : What is CSS an abbreviation for?

A : Co-ordinator Surface Search

NIHX : Some engine manufacturers recommend that washing of the compressor side is not carried out. Is this due to;

A : It can cause fouling of the charge air cooler with wet sludge lodging between the fins.



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

NIHX : Some engine manufacturers recommend that washing of the compressor side is not carried out. Is this due to;

A : Greasy sludge from the compressor sticking between the fins in the air coolers, necessitating extra cleaning of these.

NIHX : Some engine manufacturers recommend that water washing of the compressor side of a diesel engine turbocharger using chemical cleaners is no longer carried out. Why is water washing no longer considered good practice?

A : It can cause fouling of the charge air cooler with wet sludge lodging between the fins.

NIHX : Some engine manufacturers recommend that water washing of the compressor side of a diesel engine turbocharger using chemical cleaners is no longer carried out. Why is water washing no longer considered good practice?

A : Greasy sludge from the compressor sticking between the fins in the air coolers, necessitating extra cleaning of these.

NIIL : You are drifting in open sea with a loaded VLCC, and you observe that the drift is SSE. Will the drift direction be the same for ballast condition?

A : No, drifting in ballast condition may be quite different

NIJU : The pressure delivered by a gear type fuel oil transfer pump suddenly reduces from 5 bar to 4 bar during transfer. From the options given, select the most likely cause of this occurrence.

A : Part of the pump relief/recirculation valve spring has broken off allowing the valve to open further.

NIMS : Give the meaning of this symbol:

A : lifebuoy with light

NING : OPA-90 is applicable for the following types of vessels

A : All vessels carrying more than 10 000 gallons of oil , irrespective whether as cargo or bunker

NIOK : If a cargo leak occurs onboard a liquefied gas carrier it is likely that a white vapour cloud will form. What makes the vapour cloud look white?

A : Condensation of water vapour in the air.

NIUB : What will the cadet find in the engine store?

A : He will find new brake bands in the engine store

NIXL : What is the maximum period between the sampling/testing of the moisture content of a solid bulk cargo and the loading of that cargo into a bulk carrier?

A : A maximum for seven (7) days, when there has been no change in the moisture content due to rain or snow

NIXL : What must be ensured when oxygen analysis and/or gas detection equipment is received on board?

A : If the instructions are written in a different language there should also be a set of instructions in English



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

NJAV : The engine room is equipped with regular fire hoses and nozzles. What is important to observe when using water as an extinguishant in the engine room?

A : All the mentioned alternatives.

NJBT : What does the abbreviation "SBT" stand for in the context of the construction and layout of an oil tanker?

A : Segregated ballast tanker.

NJBY : The outside manually controlled lamp of a liferaft must be capable of working at minimum for a period of:

A : 12 h

NJCG : What must be checked carefully before commencement of ballasting tanks on a bulk carrier, when operating in very cold conditions?

A : All air ventilators are open and free from ice build up.

NJGM : When can a vessel load concentrates whose moisture content exceeds the Transportable Moisture Limit?

A : When proved to an Administration that there is adequate stability as well as structural integrity

NJMP : Which of these actions should crew take if a suspicious object that may be a bomb is located during a search?

A : Confirm with their search partner that the object found is suspicious.

NJOJ : An enclosed lifeboat is fitted with a self-contained air support system. With the engine running, what is the minimum period of time the air should remain safe and breathable?

A : 10 minutes

NJSV : Who has the responsibility to ensure that the highest standards of cleanliness and hygiene are maintained in the galley? (Select the most correct answer)

A : Every person working in the galley area, engaged in the handling or preparation of food.

NJWV : The diagram shows a calibration curve for a pressure gauge. What is an alternative name for the slope of the characteristic?

A : Sensitivity

NJXQ : The function of the fuses in a motor starter circuit is to provide:

A : Short circuit protection.

NJYI : What is a hydrostatic release unit?

A : A unit which automatically releases the liferaft/lifeboat at a depth of approx 4 metres.



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

NKDO : What name is given to the process on an oil tanker, when inert gas is being blown into a cargo tank, to reduce the level of oxygen it contains?

A : Purging.

NKEH : What is the first action to be taken when you have a fire shut down on the boiler

A : Call the engineer on watch

NKJG : The greatest limitation of the fixed pressure water-spraying fire-extinguishing systems is a danger of

A : All answers are good

NKLU : The sign on the image indicates:

A : Location of immersion suit(s)

NKMQ : What specific work carried out on board requires a risk assessment to be carried out?

A : All work

NKOF : Maintenance is to be carried out on a diesel engine. How long after stopping the engine should the cooling water and lubricating oil be kept circulating in order to avoid any undue thermal stress from residual heat?

A : At least one hour.

NKPW : The picture shows a liquid filled thermometer. Liquid filled thermometers and manometers are often installed onboard ships. What is the main purpose by the liquid filling of such pointer instruments?

A : Reduce mechanical wear on the internal parts caused by vibration

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NKSP : During regular inspection of alternator windings it is found that windings are always covered with a heavy oil film coming from the atmosphere surrounding the auxiliary engine. After cleaning with an approved solvent, what do you do?

A : Improve material of intake air filters

NKSP : During regular inspection of alternator windings it is found that windings are always covered with a heavy oil film coming from the atmosphere surrounding the auxiliary engine. After cleaning with an approved solvent, what should be done?

A : Improve material of intake air filters

NKTF : The responsibility for safety and security rests with everybody on board the vessel. General house-keeping rules should be followed. Which of the listed rules is the most important?

A : Keep your working area clean and tidy.



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

NKVG : On a RoRo vessel, what should be done first when cargo has shifted at sea on a RoRo vessel and re-lashing is not possible?

A : Alter course and/or speed to reduce the accelerations and prevent further damage

NKVG : What should be done at sea, to facilitate the re-lashing of cargoes?

A : Alter course and/or speed so that the shipboard accelerations are reduced

NKVG : What should be done when cargo has shifted at sea and re-lashing is not possible?

A : Alter course and/or speed to reduce the accelerations

NKVO : How can a new officer, just boarding a ship, ensure that he knows the location and operation of all navigational and safety equipment and take account of the operating limitations of such equipment?

A : By have him demonstrate his ability

NKVV : Which special regulations cover transportation of Bulk cargoes?

A : IMO Solid Bulk Cargoes Code?

NLAA : Command of radio-telephony traffic between vessels and coast-stations lies with:

A : the coast-station

NLCD : The IMO IGC code details the requirements for cargo piping systems on gas carriers? Which one of the options given is part of these requirements?

A : Cargo pipelines are not allowed beneath deck level on gas carriers.

NLCD : The IMO IGC code details the requirements for cargo piping systems on LNG carriers? Which one of the options given is part of these requirements?

A : Cargo pipelines are not allowed beneath deck level on gas carriers.

NLCD : What kind of restrictions do we have to fitting of cargo lines on gas carriers?

A : Cargo pipelines are not allowed beneath deck level on gas carriers.

NLCM : Your ship security plan must include procedures for responding to security threats, auditing security activities and interfacing with the port facility.

A : TRUE

NLCN : Which one of the listed requirements regarding the use of an immersion suit do not correspond to present regulation? The suit shall permit the wearer to :

A : climb up and down vertical ladders from the survival craft embarkation point to the water



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

NLEG : What would be a correct form of response to the question: Have you altered course?

A : Marine Pollution means that the marine environment is contaminated by harmful or unacceptable liquids, substances or particles

NLFQ : Car decks on board ro-ro passenger ships are normally closed during sea passage. Why are passengers not allowed to be on the car-deck during sailing?

A : In case of an emergency situation it can be difficult for passengers to escape. Vehicles, lorries, trailers and other cargo are maybe lashed and it is a substantial chance for passengers to get

NLFW : What term is applied to the arrangement by which liquid chemicals are stowed on board, so that potentially reactive chemicals are not placed in adjacent compartments?

A : Segregation.

NLIE : Give the meaning of the following symbol

A : Foam installation

NLKW : Give the meaning of the following symbol

A : Fire alarm bell

NLMM : In the charts, objects are sometimes marked "Racon". What is that?

A : A buoy or a lighthouse which is activated by a ship's radar, this is indicated by a marker on the radar

NLQH : When a ro-ro unit/cargo is damaged what should the duty officer do if he is not carrying a camera?

A : Make a damage report and rough sketch of the damage

NMAS : What does the "S" mean in the Hazard column under summary of minimum requirements in the IBC ?

A : It means that the product is included in the code because of its safety hazards.

NMBQ : You are on duty during the loading of a tanker in Ras Tannurah. The deck watchman reports ... a lot of oil on the water.... What should be your FIRST action?

A : Tell the jettyman to stop loading immediately.

NMES : On a Container vessel, which of these motions is not taken into account when calculating forces on a container stow?

A : Surging

NMES : Which of these motions is not taken into account when calculating forces on a container stow?

A : Surging



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

NMIM : What should be done with the data logger printouts after completing the discharge of a refrigerated cargo?

A : They should be retained onboard for a minimum of 2 years.

NMKT : The range of a transducer is 0-200 bar. The output signal is 4-20 mA. What is the span of the output signal?

A : 16 mA

NMKT : The range of a transducer is 0-200 bar. The output signal is 4-20 mA. What is the span of the output signal.

A : 16 mA

NMRJ : Which of the following fittings shall be provided to all lifeboats:

A : a non-skid finish on all surfaces on which persons might walk

NMTT : What is an IED?

A : A homemade bomb

NMTV : There is a requirement in Marpol for the slop tank capacity of oil tankers. What is the requirement for existing oil tankers.

A : 3% of the total cargo volume.

NMTV : There is a requirement in Marpol for the slop tank capacity of oil tankers. What is the requirement for SBT tankers?

A : 3% of the total cargo volume.

NMVH : The superstructure and deck houses of passenger ships carrying more than 36 passengers shall be divided into main vertical zones by

A : Class "A" division

NMDD : When directing an Inmarsat-A aerial the following is irrelevant:

A : the speed of the vessel

NNEO : When you are connected up to the barge/shore facility and ready to start, who is giving the order to start pumping?

A : The engine officer in charge of bunkering on the receiving vessel

NNFL : What would be the most probable cause of too high an exhaust gas temperature from one cylinder?

A : Leaking injection valve.



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

NNFN : Unconscious casualties who are breathing and whose hearts are beating should be placed in the Recovery Position. Why is this position so important?

A : The position ensures that an open airway is maintained.

NNFR : Which of the following is not a DSC watch frequency?

A : 2182 kHz.

NNHN : During the loading of cars and vans on a RoRo vessel, what must be verified by the vessels crew when the vehicle is in its stowage position

A : All of the following answers

NNHN : If an enclosed space needs to be entered, what is the first thing that must be done?

A : A full Risk Assessment must be carried out

NNJV : Ship staff shall inspect all lifting equipment and record the inspection in the cargo gear record book at intervals of:

A : Yearly

NNOO : What is the meaning of this symbol ?

A : Lifebuoy with light and smoke

NNPI : What type of bomb search should you conduct to avoid panic when the credibility of the threat is in doubt and you don't want to disrupt ship business?

A : Nominated officers search

NNPO : DSC-transmissions with the tele-command 'test' can:

A : not be sent by VHF-installation

NNPQ : The responsibility for safety and security rests with everybody on board the vessel. General house-keeping rules should be followed. Which of the listed rules is the most important?

A : Keep your working area clean and tidy.

NNRG : During Parametric Rolling what happens when a wave crest is amidships?

A : There is loss of GM

NNRG : What are the residual stability requirements for a Container ship?

A : A container ship must always comply with the International Loadline Rules



NNSX : Indicate the correct name for the part marked on the sketch:

A : Piston rod

NNTP : Which one of the following items has to be included in an abandon ship drill?

A : ensuring that passengers and crew are made aware of the order to abandon ship

NNTR : What is a hydraulic hand pump usually used for?

A : The hydraulic pump is usually used for tightening the G-nuts

NNVH : How often must a safety committee meeting be held

A : Not specified exactly, but recommends at periods between 4 and 6 weeks

NNWW : What is a "bouquet garni"?

A : A bunch or sachet of herbs used to add flavour during cooking.

NOAH : The passage of electrical current through the body may result in severe and sometimes fatal injuries. You are witness to man getting electric current through his body and is stuck to the dangerous area. It is impossible to switch off the current by any main switch. How to break the current safely?

A : Stand on dry insulating material and pull the person away with isolating material.

NOCF : What is the result of a large metacentric height?

A : The ship will roll violently.

NOGG : As a general rule, where would you expect to find a portable fire extinguisher in any space?

A : Near to the entrance to the space

NOGI : A medium speed diesel engine, operating on heavy oil has suffered repeated exhaust valve failure. Upon inspection damage is noted on the underside of the valve resulting in some cases in holes passing through the valve even though the seating face appears hardly damaged. Which of the given options is the most likely cause of this type of damage?

A : High temperature corrosion due to high vanadium content in the fuel oil.

NOIP : The number of sequential transmissions of a MF/HF-DSC distress alert single frequency call attempt is:

A : 1

NOIR : EGC is short
f o r :

A : Enhanced Group Call



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

NOLF : Some LNG carriers are fitted with a water glycol system for heating the cofferdam spaces next to cargo tanks when the vessel is loaded. What is the purpose of this heating system?

A : To maintain the temperature inside the space above 5 degrees C to protect the steel.

NOLF : What is the purpose of "Glycol Water Heating"?

A : The system heats glycol water which is pumped around cofferdam system to maintain the temperature inside those spaces, when loaded, at approximately +5 C.

NOOL : Indicate the correct name of the tool on the sketch:

A : Drill press

NOTM : Give the meaning of the following symbol

A : Area protected by CO₂

NOUO : Two conventional reefer vessels are being considered for a charter that involves the transshipment at sea, or at anchor, of a cargo of frozen squid, as weather permits. Both vessels have 4 holds, vessel A has high speed, 10 tonne deck cranes and vessel B has 5 tonne, union purchase derricks. Which of the vessels, if any, would be best suited to this type of operation?

A : Vessel B would be more suitable as the derricks will give more control of the operation at sea or at anchor.

NOWX : ...a ship... ..intended to transport products with appreciably severe environmental and safety hazards which require significant preventative measures to preclude escape of such cargo. Usually the ship is of double-hull construction, with a variety of tank sizes / capacities.

A : A type II chemical tanker, as per the IBC Code.

NOYM : Your vessel has been involved in a collision, which has resulted in a heavy oil leakage. Who should be called to handle pollution claims and damages?

A : The P & I Club's nearest representative.

NPAD : The charge air pressure supplied to a diesel engine, which is normally 2.0 bar, is reduced to 1.5 bar . What will be the likely effect on the engine operation?

A : The performance of the engine will be reduced noticeably.

NPKS : The cold room temperature is almost at the cut out point in a vapour-compression refrigeration system. What should the refrigerant state be just after the evaporator if the system is correctly set up?

A : Slightly superheated low pressure gas.

NPLF : Which one of the following types of rope is the most dangerous to work with?

A : Nylon.

NPLR : The majority of marine diesel engines operate with either a pulse or a constant pressure turbocharging system. What is the main difference between these two systems?

A : Constant pressure systems have all engine cylinder exhausts connected to a common large exhaust gas manifold.



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

NPMV : What is the minimum number of lifebuoys that shall be provided with self-igniting lights and self-activating smoke signals?

A : 2

NPOT : What is the meaning of "make fast"?

A : To secure a rope

NPQE : Where do you find minimum drill requirements?

A : In the SOLAS convention and its annex

NPRT : Give the meaning of the following symbol

A : A class fire door

NPST : If chemicals spilled into a cargo hold what would these residues be considered as, under MARPOL 73/78?

A : Marine Pollutants

NPST : On a Container vessel, if chemicals spilled into a cargo hold what would these residues be considered as, under MARPOL 73/78?

A : Marine Pollutants

NPST : As regards supervising authorities at home and abroad it is determined that:

A : they always have access to the radio-equipment on board

NPTO : What is the meaning of this symbol ?

A : Survival craft portable radio

NPVG : The basic components of the self-contained breathing apparatus are...

A : Mask, bottle, frame, medium pressure valve and low pressure valve

NPVV : Why is it important to slow down the main engine RPM while water-washing the turbocharger?

A : Not to damage the rotor blades.

NPVY : Do we find integral tanks as cargo tanks on gas carriers?

A : Integral tanks are normally not allowed on gas carriers if the cargo to be carried has a boiling point less than -10°C at atmospheric pressure



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

NPWY : What is the correct temperature for storing bananas?

A : 13 - 14° C

NPXS : When a ships derrick or crane lifts a weight off the deck of a ship, from which position can the centre of gravity of the weight be considered to act?

A : From the head of the derrick or crane

NQAF : Which of following items shall be included in an abandon ship drill?

A : starting and operating the lifeboat engine

NQCY : What is done at a Quadrennial Thorough Survey?

A : Derricks are tested and parts of derricks thoroughly examined

NQHW : Give the meaning of the following symbol

A : Smoke detector

NQKI : A conventional tanker has most of its tanks slack during the discharging of oil cargo, it is not of any great consequence; however, if an OBO has most of its holds slack during discharging (or loading) of oil cargo this will:

A : Likely cause a sudden or violent list due to the very large free surface in the broad beamed holds?

NQMR : If a fuel oil cargo is treated with an anti-static additive, how does this affect its conductivity characteristics?

A : It becomes a non-accumulator of static charge.

NQMS : What is the name of the portable walkway or access between ship and shore?

A : They have had problems securing the gangway

NQQE : Ships of 10.000 tons gross tonnage and more, may be fitted with oil fitting equipment, complying with Reg.16 (7) of MARPOL 73/78 for the control of machinery space bilges. What would be the maximum "Ppm" of oily-water mixture to pass through the filter?

A : 15 ppm

NQQT : Which one of the following international regulations is normally used when handling dangerous goods?

A : IMDG code

NQRR : What is the status and function of a Panama canal pilot?

A : He shall have control of the navigation and ship handling.



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

NQRT : Which of the following types/sizes of vessels in international trade do not have to be fitted with a radiotelephone station?

A : Cargo ships below 300 tons gross

NRQA : Which of the following information shall be specified by the muster list ?

A : how the order to abandon ship will be given

NRVW : Which one of the listed items has to be included in a distress message?

A : Identification of the ship.

NRAA : A power card taken from a diesel engine cylinder using a mechanical indicator has a flat top. Which of the possible actions given in the options is most likely to correct this irregularity on the power card?

A : Change the indicator spring for one with a higher rating.

NRCB : What kinds of checks must be carried out on slings, wires and other items of lifting equipment before they are used in routine operations?

A : They must be visually inspected and ascertained, so far as is possible, as being in good working order and fit for purpose.

NRQC : Which one of the listed fire-extinguishing medium is to be preferred to fight a fire in an electric installation (for example the main switchboard)?

A : Powder.

NRCW : Which personnel must undergo familiarization training on board

A : Everyone

NRDN : How often must a risk assessment be reviewed?

A : Annually or more frequently due to new methods being employed or following an accident

NRGY : What distinguishes vapour connections (headers) from liquid cargo connections on a chemical tanker manifold?

A : Vapour connections are painted yellow with red end bands, are marked with the word "vapour" (or "vapor") and have a small stud located on the flange face at the twelve o'clock position.

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CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

NRLY : Which PPM is allowed for discharging of "Bilge Water" overboard?

A : 15 PPM

NRMV : What is the list that must be overcome by a self-closing fire door on a passenger ship?

A : 3,5°

NRMW : On the figure there are four (4) possible definitions of the term "AFT" shown. Which one is the correct one?

A : Aft is defined as A on the figure

NRNJ : What must the oxygen content of the atmosphere be within the cargo tanks of an oil tanker prior to loading?

A : Must not exceed 8% by volume.

NRNJ : What must the oxygen content of the atmosphere within the cargo tanks of an oil tanker be prior to loading?

A : Must not exceed 8% by volume.

NRNL : Which among the following list is particularly required for a totally enclosed lifeboat ?

A : hatches positioned so as to allow launching and recovery operations to be performed without any occupant having to leave the enclosure

NRQE : As per SOLAS requirement fast rescue boats shall be constructed in such a way that:

A : They are self righting or capable of being readily righted by its crew

NRWS : What are the criteria that it must be automatic fire detection onboard a ship with heat/ smoke detectors and audio alarm?

A : All ships that are covered by the IMO safety conventions

NRWV : What is the minimum number of lifebuoys carried by a cargo vessel of more than 200 metres in length?

A : 14

NRXH : Routine maintenance insulation testing of a three - phase induction motor should cover which measurements?

A : U-E, V-E, W-E, U-V, V-W, W-U

NSAI : In bulk carrier design what constitutes the main structural strength element?

A : The collision bulkhead



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

NSAY : Which of the following pump types could be damaged if the discharge valve is closed before the motor is stopped?

A : Gear pump

NSCO : What kind of damages do steel coils sustain?

A : Crushing and distortion

NSDK : Is there a longitudinal bulkhead in membrane tanks?

A : There isn't longitudinal bulkhead in membrane tanks

NSFE : How can you arrange for safe movement of passengers on ro-ro decks?

A : Passengers should be warned of vehicle movements when entering or crossing car or vehicle decks. They should preferably keep to walkways while moving about the ship.

NSGQ : Noise level called "the injurious area" starts at:

A : 100 dB

NSGS : Is it recommended to adjust the spring tension on the fuel valves during operation to achieve:

A : Not recommended at all.

NSJD : On the figure 4 possible definitions of the term "FORWARD" are given. Which one is the correct one?

A : Forward is given by C on the figure

NSNF : What is the meaning of this symbol ?

A : Lifejacket

NSOF : DSC-test transmissions may:

A : be sent by an MF-installation on the DSC-distress frequency

NSRP : A davit-launched liferaft on board a ship is so arranged to be boarded by its full complement of persons in less than:

A : 3 min

NSRR : Which statement is true?

A : The FW-HT is circulated in a closed system, cooling cylinder jackets on Main Engine and aux. Engines



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

NTAR : What is most important when transferring route plans to other nav. systems?

A : - Select WGS84 and when plotting on the chart apply the stated j .corrections. _

NTAR : What is most important when transferring route plans to other nav. systems?

A : Both systems use same chart datum

NTBL : The main risk for people when using CO2 as an extinguishing agent in a closed space is:

A : Air suppression

NTBS : What is the maximum pressure that the safety valve on a steam boiler should be set to lift?

A : Open, when pressure in the boiler is in excess of normal working pressure.

NTCQ : In which way may intake of poisoning material occur?

A : By inhaling, skin penetrating, skin absorbing and swallowing

NTDJ : The right order and the correct contents of a distress alert is:

A : None of the above

NTFU : What is the purpose of a deck seal?

A : To avoid backflow of gas to the engine?

NTGU : On a container vessel, what is the danger associated with carrying empty tank containers?

A : They may contain flammable cargo residue

NTGU : What dangers are associated with the carriage of empty tank containers?

A : They may contain flammable cargo residue

NTGU : What is the danger associated with carrying empty tank containers?

A : They may contain flammable cargo residue

NTJA : The display of the DSC-controller on board is showing the following lines:TX call:Selectiveto: 02114200 Category:RoutineUSB:telephony DSC Tx 2189.5 kHzsave>send<This DSC-message must be transmitted in the mode:

A : F1B



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

NTJA : The display of the DSC-controller on board is showing the following lines:TX call:Selectiveto: 02114200 Category :RoutineUSB:telephony DSC Tx 2189.5 kHzsave>send<This DSC-message must be transmitted in the mode:

A : F1B

NTJV : On board a ship, how many lifebuoys can you expect to be fitted with a self-igniting light ?

A : half of the total number of lifebuoys provided on board

NTJX : You want to send a DSC-call in connection with a shore telephone-call. You must choose:

A : routine

NTRG : Which one of the listed requirements regarding the stowage of rescue boats corresponds to present SOLAS regulations. Rescue boats shall be stowed:

A : So neither the rescue boat nor its launching arrangements will interfere with any survival craft at any other launching station.

NTVN : What additional requirements are in place for the employment of a young person?

A : He must sign on in section ALC 1c of the crew agreement, and his hours of work would be carefully monitored and would involve risk assessments being carried out to ensure that he can carry out the tasks given him

NTWM : When an evaporator is operated in extremely cold water you may need to throttle the seawater supply to:

A : Maintain the specified boiling temperature

NTXB : If you are called upon to reeve a new wire onto a self-stowing winch drum you would, after looking at brake arrangement, reeve it to pay out as follows:

A : Direction B

NTXB : If you are called upon to reeve a new wire onto a selfstowing winch drum you would, after looking at brake arrangement, reeve it to pay out as follows:

A : Direction B

NUAC : What is the boiling temperature of methane at atmospheric pressure?

A : -162 C.

NUAC : What is the normal temperature for carrying methane in the cargo tanks of an LNG carrier?

A : Minus 162 degrees C.

NUEF : When must side scuttles in passenger ships where the sills are below the margin line be kept closed and watertight?

A : During navigation between ports



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

NUFQ : You are alongside in New York in winter-time. You commence discharge of a cargo of Caustic Soda. The ships pumps are functioning correctly and the required valves are all confirmed as open, but no product is received on shore. Which of the following is the most likely cause of the problem?

A : There is frozen product somewhere in the lines.

NUFT : Chemicals and harmful substances are safely stored in a designated locker on board, why?

A : For safety reasons. Many substances found onboard are capable of damaging the health and safety of those exposed to them. Before any chemical or harmful substance is delivered to a crewmember,

NUFG : What is the danger of having a large bunker tank only partially filled with bunkers?

A : FSE and virtual loss of GM.

NUGF : What is the main potential danger of having a large prismatic cargo tank only partially filled with LNG?

A : Excessive free surface effect resulting in loss of vessel stability.

NUHQ : Tab washers are often fitted to bolted assemblies to prevent the nuts and bolts slackening. For an assembly where the nuts are positioned at the top select the option which describes the correct method of locating the tab washers.

A : Bend the inner tab up against one flat of the nut and the other tab down over the edge of the component.

NUIA : What percentage of crew change would require a lifeboat drill to be held within 24 hours of sailing?

A : 25 %

NURM : What is the ideal working temperature for physical work?

A : 17 - 20° C

NUSE : A Safety Message is used when circumstances are discovered which may constitute a danger to shipping. What is the telegraphy and telephony urgency message like?

A : T T T (Telegraphy) / SECURITE (Telephony)

NUSS : In oil cargo quantity calculations, a specific figure derived from historical analysis of discrepancies between ship and shore figures is often considered when the master is comparing a load total against that shown on the Bill of Lading for the current operation. How is this figure referred to?

A : Vessel Experience Factor.

NUTE : You have a leak cylinderliner (poor O -rings on a water cooled compressor). Where is the leaking water most likely to go when the compressor is running?

A : Into the crankcase and mix with the lube oil.

NUUX : What is the search system pattern called using 1 vessel?

A : Square System



NUVL : What is the maximum length for a dead-end corridor on a cargo ship?

A : 7m

NVAO : How often is the section on Draft and Freeboard completed in the OLB?

A : Every port

NVAQ : Describe the contents of the first page of the OLB?

A : Details of ship, the date of first entry, and list of Masters

NVCD : What do crew, visitors and contractors all have in common?

A : They all have opportunity to smuggle drugs

NVDK : When a solid cargo that presents a hazard is offered for shipment and is not listed in the International Maritime Solid Bulk Cargoes (IMSBC) Code, who will assess acceptability of the cargo for safe shipment?

A : All

NVDK : Which of these is not used to discharge bulk grain?

A : Pumps

NVEO : In what kind of atmosphere should tank washing be carried out onboard vessels with inert-gas system?

A : Inerted to less than 8% oxygen(IMO).

NVKL : Which class of emission is used for VHF radio telephony transmissions ?

A : G3E

NVKP : Protective discrimination

A : Line fuses and overcurrent relays

NVMA : A transformer overheats while taking a shore supply. Which is the likely cause?

A : Incorrect frequency

NVNK : What do you understand by: Rig the accommodation ladder in combination with the pilot ladder?

A : Rig the accommodation ladder in combination with the pilot ladder means: lower the accommodation ladder and rig the pilot ladder right next to it



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

NVNP : During maintenance work on a main diesel engine the fuel injection valve is found to be jammed in the pocket in the cylinder cover. Which of the procedures given in the options should be followed in order to complete the work?

A : Replace the complete cylinder cover with a spare unit and land the cover with the

NVQH : When planning the distribution of the cargo, what are the most important forces to take in consideration?

A : Shear forces and bending moments.

NVRF : Before any portable gas indicators are brought to the measuring spot, what is very important to do with these analysers first?

A : To do a full calibration.

NVSA : How do You test the probes for the 15 PPM monitor ?

A : By immersing them in buckets with oil and water.

NV SX : You are in confined waters. Is there any danger in the situation sketched below if you should loose engine power?

A : Your ship will sheer to starboard rather quickly with the possible consequence of grounding

NV SX : You are in confined waters. Is there any danger in the situation sketched below if you should lose engine power?

A : Your ship will sheer to starboard rather quickly with the possible consequence of grounding

NVTS : When plotting a position, where should the Officer of the Watch select as the ships position, when three gyro compass bearings intercept as a triangle (Cocked Hat) and not as a single point?

A : At the point nearest to the danger, if any.

NWAL : One water fog applicator is required for each pair of breathing apparatus on board which type of ship?

A : Passenger ships carrying more than 36 passengers

NWDX : You are paralleling two alternators and the pointer of the synchronoscope slowly stops rotating and remains stopped in one position before the circuit breaker is closed. This would indicate:

A : The frequency of the incoming alternator is the same as that of the main switchboard

NWFJ : A flame detector is activated by:

A : The infrared radiation and ultraviolet radiation given off by flames

NWHD : A motor is protected by a thermal overcurrent relay. After tripping on overload it will not be possible to reset the overcurrent relay because the:

A : Bimetallic strips need time to cool down



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

NWHD : A motor is protected by a thermal overcurrent relay. After tripping on overload it will not be possible to reset the overcurrent relay immediately because the:

A : Bimetallic strips need time to cool down

NWJN : Why are knives never to be left submerged in washing-up water?

A : Because you may cut your fingers.

NWKI : Emergency exits are provided for personnels safe and quick escape from the engine room in case of fire. The emergency exits are an item to be checked during the Safety Equipment survey annually. What is the surveyor checking?

A : The surveyor is checking that the emergency exits are properly marked, free from obstacles and that the closing devices are easy operable.

NWKI : Emergency exits are provided for personnels safe and quick escape from the engine room in case of fire. The emergency exits are an item to be checked during the Safety Equipment survey annually. What is the surveyor checking?

A : The surveyor is checking that the emergency exits are properly marked, free from obstacles and that the closing devices are easy operable.

NWLI : On the figure there are four (4) possible definitions of the term "MIDSHIPS" given. Which one is the correct one?

A : Midships is given by B on the figure

NWNS : On the drawing of an oily water separator which is the oil outlet valve?

A : Upper.

NWOK : On a Container vessel, what should be done if a container with damaged floorboards is loaded onto a ship?

A : The container should rejected outright

NWOK : What should be done if a container with damaged floorboards is loaded onto a ship?

A : The container should rejected outright

NWPK : Why is it especially necessary to continue to ventilate the tank and to continuously monitor the atmosphere when working inside a cargo compartment which still contains vegetable oil residues?

A : Because the decomposing residues continue to release hazardous gases, reducing the levels of oxygen in the tank and making the atmosphere potentially dangerous.

NWPK : Why is it especially necessary to continue to ventilate the tank and to continuously monitor the atmosphere when working inside a cargo compartment which still contains vegetable oil residues?

A : Because the decomposing residues continue to release hazardous gases, reducing the levels of oxygen in the tank and making the atmosphere potentially dangerous.

NWRF : How many hand held distress flares are carried in each lifeboat?

A : 6



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

NWSS : The following information must be given on the SART

A : date of replacement of the battery

NWSS : The following information must be given on the SART:

A : date of replacement of the battery

NWUT : The Chief officer of a General Cargo Vessel has instructed that ballast tanks must not be allowed to overflow when ballasting alongside. Which of the following is of the greatest concern?

A : Overflowing ballast water running over side and onto quay resulting in possible damage to shore equipment

NWYL : What can be done to minimize the reduction of GM due to free surface?

A : Reduce the number of slack tanks

NWYT : What name is given to the technique of combining a light mixture with a heavier one, without beating or stirring, but lifting gently from underneath with a spatula or spoon, in an "over and over" circular motion?

A : Folding.

NXAS : Which line can be utilized to prevent line surge when starting the main pumps of a gas carriers cargo system?

A : The condensate spray line.

NXAS : Which line can be utilized to prevent line surge when starting the main pumps of a LNG carriers cargo system?

A : The condensate spray line.

NXAS : Which line is utilized to prevent line surge when starting main cargo pumps?

A : The spry line.

NXCC : What alarm signal must be sounded by the alarm bells in case of fire?

A : The signal which is stated in the muster list

NXCD : In accordance with SOLAS and other international regulations, certain important machinery functions, such as operation and control of the steering gear and propulsion machinery, must be tested at specified times. When should these tests be carried out?

A : Prior to arrival and departure from port and following maintenance

NXCD : In accordance with SOLAS and other international regulations, certain important machinery functions, such as operation and control of the steering gear and propulsion machinery, must be tested at specified times. When should these tests be carried out?

A : All mentioned functions



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

NXEM : What type of construction material should be avoided regarding fire protection purposes? (SOLAS II-2/2.2.3)

A : All combustible materials

NXFE : How much food per person is supplied on a liferaft marked SOLAS B PACK?

A : None

NXQJ : What will happen to the temperature in a cargo tank loaded with LNG if the vapour pressure is reduced by removing more vapour than is generated?

A : The LNG temperature will decrease.

NXQJ : What will happen to the temperature in a cargo tank loaded with LNG if the vapour pressure is reduced by removing more vapour than is generated?

A : The LNG temperature will decrease.

NXTS : What is the correct position/working area for the deck watchman during cargo operation?

A : On the cargo tank area all time?

NYAJ : Correct start up procedure of an oil fired boiler is that the air fan is running for some time, before oil is supplied and ignition occurs. What is the reason for this?

A : For safety reasons, to ensure that all explosive atmosphere inside the boiler is removed.

NYBB : Radio waves used in satellite communication are not affected by ionosphere because:

A : a disc aerial is used

NYBH : Your ship is going full astern and making sternway. Where will the "pivot point" be located? No wind, current.

A : Somewhere aft of the center of gravity, but it is impossible to pin-point the exact location

NYFJ : What will You do if the plate exchanger leaks after cleaning and is back in service. (The measurement A is tightened to minimum measurement.)

A : Dismantle the exchanger and check or renew the rubber packings.

NYFL : Tanks are to be inspected. Presently they are inerted, empty and water cleaned. Outline steps , if any, to be taken in order to have tanks ready for inspection and then lifting cargo after inspection:

A : Purging inertgas, purging air, inspect, purging inertgas?

NYIS : What is the period of validity of the Ships Register?

A : 5 years



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

NYNA : What general background colour is used on warning signs that indicate emergency or first-aid features, or indicate a safe condition?

A : Green.

NYPA : What is done at a five yearly thorough inspection of lifting plant on a General Cargo vessel?

A : Lifting plant is proof load tested and all parts thoroughly examined

NYQC : The reporting of incidents involving harmful substances and / or marine pollutants is regulated under which international guidelines?

A : Protocol I of MARPOL 73/78.

NYSN : The Training Manual shall contain instructions and information on the life-saving appliances and the best method of survival. Which of following detailed explanations of crew duties in relation to emergency situations shall be contained therein?

A : Correct donning of life-jackets

NYWA : Where do we find information regarding fire extinguishers, fire doors, remotes release buttons, fire equipment etc. onboard a ship?

A : Information related to fire fighting equipment, release systems etc. do we find in ship fire plan.

NYWS : On a Chemical Tanker suitable for carrying "special requirement" cargoes as per Chapter 15 of the IBC Code, such as Acrylonitrile, (most Chemical Tankers are), it is required that in addition to the SCBA sets used for firefighting, 3 additional SCBA sets (+ protective clothing) are carried for use in entering gasfilled compartments. These SCBA sets should be inspected:

A : At least once every month by a responsible officer and once every year by an expert?

NYWT : If you have taken full bunker, what is important to have in mind?

A : Pump out a small quantity from each tank at the first opportunity , to avoid having an overflow to deck when you put heating to the tank

OAEQ : Part way through a profiling interview with a supplier, the package the individual is carrying arouses your suspicion. What do you do?

A : Discreetly inform someone of your suspicions so he or she can get assistance.

OAES : What is the denomination for API?

A : An abbreviation of American Petroleum Institute.

OAET : A U tube manometer is used to measure the pressure delivered by a ventilation fan. Following replacement of the fan by a larger unit with a higher delivery rate and pressure the liquid is blown out of the open end of the manometer. Which of the options given will allow the manometer to be used to measure the delivery pressure of the larger fan?

A : Refill the manometer with liquid with a higher density.

OAFI : To what Proof Load is a 30T SWL derrick tested?

A : 35T



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

OAJW : What could be the reason for the magnetic compass to swing through large angles when the ship is rolling in a seaway?

A : The heeling error magnets are upside down and/or not in the correct position.

OAKO : How do container ships without hatch covers comply with the International Convention on Load line Rules?

A : An International Load Line Exemption certificate will be issued in accordance to Article 6.

OAKO : Which of these motions has a marked effect on a vessel's stability affecting container corner posts and the cargo securing system in general?

A : Heaving

OAPT : What is the approximately efficiency of the ejector?

A : The ejectors efficiency is between 30% and 40%.

OAQC : What is the term used to designate the work that may cause heat, sparks or flames and that cannot be performed if specific compulsory precautions are not taken in places where nearby flammable products could be present?

A : Hot work

OASS : What manoeuvre should be carried out in case of a fire onboard a ship?

A : Reduce speed and, if possible, keep the fire zone to the leeward of the ship

OATS : HEL-H is the abbreviation of a heavy helicopter radius of action for rescue purposes. What do you think the radius and evacuating capacity of the helicopter is?

A : 200 nm and capacity for evacuating more than 15 persons.

OATX : Chemical tankers commonly use "closed gauging systems". What is the particular safety design feature of such equipment?

A : They allow the contents of a tank to be measured without any lids being opened, so protecting the operator from the possible release of any harmful vapours.

OATX : Chemical tankers commonly use permanent or portable "closed gauging systems". What is the particular design feature of such equipment?

A : They allow the contents of a tank to be measured without any lids being opened, so protecting the operator from the possible release of any harmful vapours.

OATX : Chemical tankers commonly use portable "closed gauging systems". What is the particular design feature of such equipment?

A : They allow the contents of a tank to be measured without any lids being opened, so protecting the operator from the possible release of any harmful vapours.

OATX : Chemical tankers commonly use portable "closed gauging systems". What is the particular safety design feature of such equipment?

A : It allows the contents of a tank to be measured without any lids being opened, so protecting the operator from the possible release of any harmful vapours.



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

OATX : What is the significant design feature of a "closed gauging system"?

A : It allows the contents of a tank to be measured without any lids being opened, so protecting the operator from the possible release of any harmful vapours.

OAYL : Which of the following categories of galley waste is it prohibited to dump into the sea under any circumstances and irrespective of where the ship is located?

A : Plastics, including bags, bottles and packaging.

OAYL : Which of the following categories of waste can not be dumped into the sea under any circumstances and irrespective of where the ship is located?

A : Plastics, including bags, bottles and packaging.

OBCW : What types of fire extinguishers shall be used in the engine room?

A : Fire extinguishers equipped for powder or CO2 only.

OBEQ : How many buoyant smoke signals are carried in each liferaft?

A : 2

OBJN : What determines the power factor of an alternator when it is connected singularly to the switchboard?

A : The load connected to the switchboard

OBLY : Can voyage planning be executed on ECDIS?

A : - Only if approved by the Flag State

OBLY : Can voyage planning be executed on ECDIS?

A : Only if approved by the Flag State

OBNB : When a bulwark ladder is used for the pilot to step down onto the deck, such ladder shall have two stanchions provided, which are at least 40 mm in dia, between 70 and 80 cms apart, and at least 1.2 mtrs higher than the bulwark. Such stanchions shall be rigidly secured:

A : At the deck level and near the bulwark top level.

OBNV : Will it matter to the accuracy of the measurement how you are installing a resistance element in a thermo-well

A : Wrong installation will result in a major deviation in measurement

OBNV : Will it matter to the accuracy of the measurement how you install a resistance element in a thermo-well

A : Wrong installation will result in a major deviation in measurement



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

OBOQ : You are going to inspect a fresh water tank together with one of the Engineers. Is it safe enough to open the manhole and enter the tank (it is only fresh water) or do you have to take extra precautions before entering?

A : Make sure that the tank/ enclosed space is gas free, ventilated and the oxygen content is measured. O2 content shall be 21% before entering the tank/ enclosed space

OBJP : Which PH - values are recommended when washing tiled bathrooms?

A : 38237

OBRV : On all UMS operated vessels and also on most other vessels the engine room is equipped with fire detectors. What requirements of testing and checking of the detectors are to be observed?

A : All the mentioned alternatives.

OBRV : On all UMS operated vessels and also on most other vessels the engine room is equipped with fire detectors. What requirements of testing and checking of the detectors are to be observed?

A : All the mentioned alternatives.

OBSB : A crew member is seen to collapse on entering a cargo hold of a bulk carrier; what action should be taken?

A : A full emergency must be declared

OBTW : A cargo of pineapples is being carried in a refrigerated container through the tropics. There is a catastrophic and irreparable failure of the refrigeration unit. What would be the most appropriate action to be taken in such circumstances from the options given?

A : Transfer the cargo to an empty refrigerated container and resume refrigeration.

OBTW : A vessel is carrying a refrigerated cargo under controlled atmosphere (CA). From the options given, select the most appropriate degree of opening of the air change vents when operating CA.

A : 0%

OBYL : What is the meaning of this symbol ?

A : Embarkation ladder

OCEG : What term is used to describe a fresh water cooling system which contains a seawater cooled common freshwater cooler and which meets the cooling requirements for all the engine room machinery?

A : Central cooling system

OCEO : How is the painter attached to the lifeboat released once the boat is waterborne and ready to leave?

A : Remove the toggle which will release the painter

OCFP : On a RoRo vessel, why should chipping and painting not be done on a loaded car deck

A : To avoid damage to the cars or their paint work



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

OCFP : What should duty crew members carry at all times?

A : A copy of the cargo stowage plan

OCGF : Your vessel have been in collision and you are not sure if your vessel is sinking or not. How will you handle this situation?

A : Search for missing persons. Continue to monitor situation and prepare for abandonment in case it become necessary.

OCJJ : When an overhaul is completed and the compressor is going to be started for a test run, it is important that we:

A : check that we have an open discharge line all the way to the pressure bottle.

OCKG : Which of the following fittings shall be provided to all lifeboats:

A : a manually controlled lamp fitted on the outside

OCSM : A distress alert from an Inmarsat-EPIRB, is received in the coverage area of a satellite by ground station within:

A : two minutes

OCZO : The MF/HF-transceiver on board is tuned to the assigned frequency of a station. To make this connection the following mode is used:

A : J3E

OCVC : What strength of lashing belts should be used to secure light motor vehicles?

A : Breaking stress 2.0 to 2.3 tonnes

OCVC : What strength of lashing belts should be used to secure light motor vehicles on a RoRo vessel?

A : Breaking stress 2.0 to 2.3 tonnes

OCYK : A class "D" fire involves what type of material?

A : Metals

OCYV : When should a master agree to accept a bulk cargo of concentrates?

A : When he is fully satisfied that the actual moisture content of the cargo is less than the Transportable Moisture Limit (TML)

OCYV : When should a master agree to load a cargo of concentrates?

A : When he is fully satisfied that the actual moisture content of the cargo is less than the Transportable Moisture Limit (TML)



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

ODAG : Fuel oil from a leaking fuel pipe has been collected in a drip tray under the boiler furnace. The oil is suddenly ignited by a backflash from the boiler burner. You are in the boiler room and you may chose among various extinguishers. Which one can you use?

A : Any of the mentioned extinguishers

ODBF : What is the purpose of a fire wire?

A : Wire for pulling burning ships off the pier

ODEH : What is (are) the basic component(s) of a detection system?

A : All the answers are good

ODEH : What is (are) the basic component(s) of a Fire detection system?

A : All the answers are good

ODFH : Which among the following list is particularly required for a totally enclosed lifeboat ?

A : access hatches which can be closed watertight

ODMV : Which of the following detailed explanations should be mentioned in the Training Manual ?

A : The method of launching from within the survival craft

ODNH : A distress alert has accidentally been sent with the Inmarsat-C installation. One should now:

A : make contact with an RCC

ODOV : After loading certain oil cargoes, known as static accumulator cargoes, it is common to wait for the cargo to stop moving within the tank and reach the point at which it will cease generating any further static electricity, before taking any samples or ullages. Which of the following is the typical length of time allowed for this process

A : 30 minutes.

ODOV : After loading certain oil cargoes, known as static accumulator cargoes, it is common to wait for the cargo to stop moving within the tank and reach the point at which it will cease generating any further static electricity, before taking any samples or ullages. Which of the following is the typical length of time allowed for this process?

A : 30 minutes.

ODOV : After loading certain oil cargoes, known as static accumulator cargoes, it is common to wait for the cargo to stop moving within the tank and therefore reach the point at which it will cease generating any further static electricity, before taking any samples or ullages. Which of the following is the typical length of time allowed for this process

A : 30 minutes.

ODQO : What is most important when using expanded square search?

A : Accurate navigation



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

ODTM : How much can the concentration of oxygen in the air decrease before it is dangerous to stay in the atmosphere without breathing apparatus?

A : 2 - 3 %

ODVF : It is a requirement that portable gas detection instruments are carried onboard all liquefied gas carriers. One such instrument is often referred to as an explosimeter. What is measured with an explosimeter?

A : 0-20% and 0-100% of the LEL for hydrocarbon gas content in the atmosphere.

ODVF : What do we measure with an explosimeter?

A : With an explosimeter we measure 0-20/0-100 % LEL hydrocarbons.

OEAY : What necessary precautions should be taken before entering a tank or an enclosed space?

A : Make sure that the tank/ enclosed space is gas free, ventilated and the oxygen content is measured. O₂ content shall be 21% before entering the tank/ enclosed space

OEBC : On a container vessel, what additional force must be considered when planning the lashings for containers stowed at the outboard part of the deck stow

A : The effect of wind on the containers.

OEVI : With the DSC format specifier geographical area call besides a reference position the number of the full degree difference in longitude and latitude must be fed in:

A : westerly and northerly direction

OEQU : What is the meaning of this symbol ?

A : Fasten seat belts

OETD : On a reefer vessel air is passed over the cooling coils before entering the cargo hatch via trunking to cool the cargo. It is important to ensure that the cooling coils are clear of any material such as plastic sheeting or bags. Why is this so important?

A : The plastic may interfere with the air flow over the cooling coils and subsequently the cooling of the cargo.

OEUA : Inflatable splints are made in various sizes and are shaped to the upper and lower limbs. What is the advantages of an inflatable splint?

A : It is more easy to give correct pressure to the fractured/injured area, and the control of swelling and bleeding is more easy to observe.

OEUA : Inflatable splints are made in various sizes and are shaped to the upper and lower limbs. What is the advantages of an inflatable splint?

A : It is more easy to give correct pressure to the fractured/injured area, and the control of

OEUS : Why are many machinery components onboard ship now tightened using cylindrical jacks and hydraulic oil pressure rather than more traditional methods such as, for example, the use of torque wrenches?

A : Hydraulic tightening avoids the risk of unwanted bending stresses when compared to



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

OEUV : Which preparations and precautions are necessary before "hot work" commences onboard ship?

A : Follow all ISM procedures relating to hot work including permit to work and hotwork

OEUV : Which preparations and precautions are necessary before "hot work" commences onboard ship?

A : Procedures according to instructions for hot and cold work should be carried out and necessary forms filled in

OEVV : Oil analysis results show a high level of tin. What could be the cause of this?

A : Bearing damage.

OEWT : On the figure 4 possible definitions of the term "ABEAM" are shown. Which one is the correct one?

A : Abeam is defined as A on the figure

OEEX : After communication plugs are connected, the ESD is tested from?

A : Ship and shore.

OEEX : All gas carriers, including LNG carriers, are fitted with an ESD system. What do the letters ESD stand for in relation to LNG carriers?

A : Emergency Shut-Down.

OEEXO : When shall the engineer officer in charge of a watch be readily capable for operating the propulsion equipment?

A : When the machinery spaces are in the manned condition.

OEEXP : Which one of the listed requirements regarding enclosures of totally enclosed lifeboats do not correspond to present regulations? The totally enclosed lifeboats shall:

A : have self-bailing arrangements

OEFBQ : What is the minimum air capacity of the self-contained air-breathing apparatus?

A : 1,200 litres of free air

OFDH : Is there any requirements regarding double bottom for large passenger ships?

A : Yes, in ship of 76 m in length and upwards, a double bottom shall be fitted amidships, and shall extend to the fore and after peak bulkheads, or as near thereto as practicable.

OFDK : How to determine when the cool down is complete?

A : When temperature monitor or liquid level gauges show a liquid presence in the bottom of the tank.



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

OFDK : With reference to preparations of LNG carrier cargo tanks for cargo loading operations, how can it be determined that the cool down operation is complete?

A : When temperature monitor, or liquid level gauge, shows that liquid is forming in the bottom of the cargo tank.

OFGT : In the diagram which line would be the "AFT SPRING", if the vessel was port side alongside a jetty?

A : Aft spring is defined as A on the figure

OFHS : Which class of fire involves liquids?

A : Class B fire

OFLW : Which of the following items do not necessarily have to be included in an abandon ship drill? (SOLAS III/18.3.4)

A : Starting and operating radio life-saving appliances

OFPR : In describing oil cargoes, what is "sour crude"?

A : A term used to describe crude oil or products containing appreciable amounts of hydrogen sulphide and / or mercaptans

OFPV : What is meant by being intrinsically safe?

A : Can not produce enough energy to ignite a gas (explode)?

OFQT : Your vessel is not in distress and not taking part in a distress operation. How would you impose radio silence on vessels which are interfering the distress traffic?

A : Seelonce Distress

OFRL : HEL-H is the abbreviation of a heavy helicopter radius of action for rescue purposes. What do you think the radius and evacuating capacity of the helicopter is?

A : 200 nm and capacity for evacuating more than 15 persons.

OFSJ : With full load on the main engine, the turbocharger tachometer reads: Too low RPM. Why?

A : Pick up for tachometer is wrongly adjusted.

OFVU : Why should elevators not be used in an emergency?

A : Power could fail and passengers could be trapped inside.

OFXF : Via a coast-station radio medical advice is asked using NBDP. What command has to be given after ga +?

A : med +



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

OGCJ : How do we control the cargo tank pressure when loading a gas carrier?

A : When loading we control the cargo tank pressure with cargo compressors, vapour return to shore or the loading rate.

OGCJ : Which of the following is an acceptable method of controlling the cargo tank pressure when loading a liquefied gas carrier?

A : Through a vapour return to shore connection.

OGDD : Is it required to have supplementary emergency electric lighting on board passenger ships?

A : Yes, all passenger public spaces and alleyways shall be provided with supplementary electric lighting

OGEA : May an engine room be only protected by a fixed low expansion foam fire-extinguishing system?

A : No

OGEV : As a general rule, where are pressure containers for the gas of a fixed fire-extinguishing system stored?

A : Outside the space which is to be protected

OGGE : What is the recommended method of identifying galley utensils, such as knives, chopping boards and containers, that are dedicated to the preparation of specific types of food?

A : A standard colour coding system.

OGHC : A fully refrigerated liquefied gas carrier, equipped with membrane tank with MARVS less than 0.7 bar and cargo temperature of less than -10 C. What type of barrier is required?

A : Complete secondary barrier.

OGHC : A fully refrigerated liquified gas carrier, equipped with membrane tank with MARVS less than 0.7 bar and cargo temperature of less than -10 C. What type of barrier is required?

A : Complete secondary barrier.

OGHH : Why is it important to keep the condense PH- value in correct range?

A : To neutralize the acids occurring in the condensate system.

OGIS : There is an "industry standard" book, found on oil tankers, which explains all about oil cargo and cleaning operations and their associated hazards. What is it called?

A : The International Safety Guide for Oil Tankers and Terminals (ISGOTT).

OGLP : What is the main purpose of bottom-blowing a boiler?

A : To get rid of sludge in the water chamber.



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

OGNG : The receipt of a distress alert is to be pronounced as followed:

A : mayday (1x), call-sign of ship in distress (3x) / this is / own call-sign (3x) / received mayday

OGNH : There are a number of different designs of tanks used for the cargo containment systems for liquefied gas carriers including independent tanks. How many different types of independent tanks are there in the IMO Gas Codes?

A : There are three types of independent tanks, type A, B and C

OGPK : Complete the following statement from the options given. Following maintenance work to a single element, feed water regulator for a steam boiler it is necessary to

A : ..apply lagging to the steam connection only.

OGPR : High oxygen content in the fluegas may be caused by:

A : All the mentioned alternatives ?

OGQP : When testing a overhauled fuel valve, the test pump is to be operated as follows:

A : Pushed by sufficient force to accurately check the correct adjusting pressure.

OGRR : Which of the following can be considered to be two of the main requirements for a paint coating for a cargo space of a General Cargo Vessel?

A : Light reflective and compatible with edible cargoes

OGTS : What is the duct keel on a general cargo ship?

A : The duct keel is a longitudinal box shaped strength member running along the centreline of the ship and through which piping etc can be placed.

OGTS : What is the purpose of a brine trap?

A : To prevent the escape of cold air into the bilges

OGTS : What is the purpose of a brine trap on a General Cargo Vessel?

A : To prevent the escape of cold air into the bilges

OGXE : Modulation is:

A : blending LF & HF signals

OHCB : What is the correct method to use for fitting a rolling contact bearing, such as a ball bearing, onto a parallel shaft?

A : Gently heat the bearing in an oil bath and use a bearing puller to draw it onto the shaft..



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

OHCB : What is the correct method to use for fitting a rolling contact bearing, such as a ball bearing, onto a parallel shaft?

A : Heat the ballbearing in oil, and put it on the shaft.

OHDB : The Urgency Message from a ship is used to notify other traffic of a situation where the ship is not in imminent danger, but where the development of the situation is uncertain and may need assistance in the near future. What is the telephony urgency message like?

A : PAN-PAN

OHDY : In what language/languages must the fire control plans or booklets (or copies of these) be written?

A : In the Flag State official language with copies in English or French

OHEU : What would be considered as an acceptable range for the p-alkalinity in a low pressure auxiliary boiler?

A : 100 - 300 PPM CaCO₃.

OHFV : What is the search pattern system called using more than one ship?

A : - Determine when the seaman was last sighted and concentrate the search round the course line between the last sighting and present position, taking into account any prevailing current.

OHFV : What is the search pattern system called using more than one ship?

A : Parallel System

OHGM : The last meter of the vapor return line at the manifold should according to USCG be marked as follows :

A : Painted red/yellow/red with the red bands 0.1 meter (0.33 feet) wide, and the middle yellow band 0.8 meter (2.64 feet) wide

OHGM : The last meter of the vapor return line at the manifold should according to USCG be marked as follows :

A : Painted red/yellow/red with the red bands 0.1 meter (0.33 feet) wide, and the middle yellow band 0.8 meter (2.64 feet) wide

OHIJ : You are alongside and the hoses have been connected for discharge. The jetty-man shouts across to you, telling you to start cargo. The Duty Officer has not yet given you any instructions to commence. What will you do?

A : Advise the Duty Officer and await further instructions. Ask the jetty-man to stand by.

OHLB : How is responsibility for the stowage and securing of containers determined on multi-purpose vessels?

A : By wording in the charter party

OHLB : Where would you find a list of dangerous goods banned from maritime transport?

A : In chapter 3 of the IMDG code



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

OHNX : Which item among those below is included in the normal equipment of every liferaft ?

A : three tin-openers and a pair of scissors

OHQF : Who shall check the ships medical supplies?

A : A pharmacy authorised or accepted by the Norwegian Board of Health or, if no such pharmacy is available, the master and a doctor approved by a Norwegian Consulate shall perform inspection once every 12 months.

OHQH : What is the purpose of a maritime inquiry?

A : To clarify circumstances and causes of an occurrence with particular reference to the seaworthiness of the ship and safety at sea.

OHSY : In maritime radio-communication by "low power" given by a nautical phone is meant a transmitting power of:

A : 1,0 - 1,5 watt

OHTW : The VHF-band is in the frequency range:

A : 30 - 300 MHz

OHUC : On which is it compulsory with ODME in connection with the cargo system?

A : On tankers of 150 gross tonnage and above.

OHUC : Why are the tank lids and other access points usually round on the deck of an oil tanker?

A : To avoid localized stress points at any corners.

OIBJ : On a dark night with a clear atmosphere, the outside manually controlled lamp of a liferaft is visible at minimum at a distance of:

A : 2 miles

OIDU : What will happen if the charge air pressure drops?

A : The performance of the engine is reduced noticeably

OIDW : What are the best operating conditions for the separator?

A : Constant flow, clean probes and temperature below 60 Degr.C.

OIEA : Is it always possible to use the word "ship" instead of the word "boat"?

A : Normally a small vessel is called a "boat" rather than a "ship", otherwise it is not important.



OIEA : What is the advantage of a large ship?

A : The advantage of a large ship is that it is economical to operate

OIEN : Found in a commonly-used piece of equipment aboard an oil tanker, what does a "pellistor" do?

A : It is an electrical sensor unit fitted in a flammable gas detector for measuring hydrocarbon vapours and air mixtures to determine whether the mixture is within the flammable range

OIEQ : May liquid fuel, lubricating oil or other flammable oils be carried in a forepeak tank?

A : No

OIOH : Which of these statements is correct with regard to the characteristics of cashew nut shell liquid?

A : It is corrosive

OIPL : What is the approximate content of oxygen in air?

A : 21 %

OIQO : On a Container vessel, where should containers with untreated fishmeal cargo be carried?

A : On deck

OIRL : How can the pressure be regulated during start up of a positive displacement pump such as a gear pump?

A : Adjustment of the pressure relief valve to recirculate part of the flow.

OIRM : Liquefied natural gas (LNG) is often referred to as natural gas or marsh gas. What is another common name for LNG?

A : Methane.

OIXQ : The figures show a graphical symbol for a particular electronic component and a typical operating characteristic for the same component. Which component?

A : Triac

OIXQ : The figures show a graphical symbol for a particular electronic component and a typical working characteristic for the same component. Which component?

A : Triac

OJEL : The time indication 171906z means in maritime radio communication:

A : 1906 hours UTC on the 17th of the month



OJEM : Does the Master sign on in section ALC 1a of the crew Agreement?

A : No he is exempt from signing

OJFG : What type of detergent is recommended to use to remove floor polish?

A : Alkaline detergent (strong).

OJHE : A stevedore is working in a cargo hold of a bulk carrier while completing discharge of a concentrate cargo. What possible assumptions could be made if the stevedore appears to be taken ill?

A : Assume problem due to lack of oxygen and/or toxic gas and rescue with self-contained breathing apparatus

OJHT : Which publication sets out in detail the forces that cause cargo shifting?

A : The Cargo Securing Manual (CSM)

OJHX : The prescribed test of an approved portable VHF radio set (portophone) must be done once a:

A : month

OJIL : How should chemicals and harmful substances be stored on board?

A : In a separate locker. The locker shall be clearly marked, locked and ventilated.

OJLA : On a ship installation it is preferable on vertical pumps to have shaft sealing at the pump upper only. For what reason?

A : All of the mentioned alternatives.

OJLG : What is the preferred method of accommodating expansion in cargo pipeline systems on gas carriers?

A : Use expansion loops.

OJLG : What is the preferred method of accommodating expansion in cargo pipeline systems on LNG carriers?

A : Use expansion loops.

OJLG : What kind of expansion devices are normally fitted on cargo pipelines on gas carriers?

A : Expansion loops.

OJRA : The insulation resistance (IR) to earth of a new galley hot-plate is measured to be 30 Mohm. When three identical hot-plates are tested together their combined IR will be:

A : 10 Mohm



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

OJRA : The insulation resistance (IR) to earth of a new galley hot-plate is measured to be 30 Mohm. When three identical hot-plates on the same supply are tested together their combined IR will be:

A : 10 Mohm

OJRC : SOLAS requires that an Inert Gas system is capable of delivering inert gas with a maximum level of oxygen at any required rate of flow. What is that level?

A : 5 %

OJRC : SOLAS requires that an Inert Gas system on an oil tanker is capable of delivering inert gas with a maximum level of oxygen at any required rate of flow. What is that level?

A : 5 %

OJXP : At which point in the Separating System shown is the oil concentration of 15 PPM allowed?

A : C

OKBI : If one wants to transmit a weather report with an Inmarsat-C terminal one should use the following address:

A : 41

OKCK : A bulk cargo of Coal is to be loaded in Australia for Europe; the coal is declared as having a high moisture content (but less than the transportable moisture Limit (TML)); what must the Master ensure?

A : All cargo hold bilges are sounded daily and the amount of water logged; the bilges can then be pumped out.

OKKG : Which one of the listed requirements regarding abandon ship drills do not correspond to present regulations? (SOLAS III/18.3.5 - 18.3.7)

A : on ships on short international voyages, each lifeboat shall be launched and maneuvered in the water at least every six months

OKMB : The starting air valve is fitted for the purpose of:

A : Bringing the engine up to sufficient number of revolutions for combustion to take place and engine to run

OKPX : Modern conventional reefer vessels are designed to carry containers on deck which are usually 40 foot units weighing more than 20 tonnes when stuffed (filled with cargo). For a vessel fitted with deck cranes having a SWL of 19 tonnes which of the options given is the most appropriate method of handling such containers?

A : Use an equalising beam with two of the ships cranes operating in tandem.

OKUF : What is the procedure for use of the main engine room fire extinguishing system, e.g. Halon or CO2 system?

A : Search the engine room, make sure all personnel is out. -Stop ventilation. -Close for all air access. -Upon approval of the Master, release the halon/CO2.

OKWA : Continuity testing of a delta connected three phase induction motor yields the following results; U1-V1 = 4 ohms, V1-W1 = 4 ohms, W1-U1 = 4 ohms. What is the value of continuity resistance for each winding ie. U1 - U2?

A : 6 ohms



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

OKWV : The good operation in any location, whether the NAVTEX is working properly or not, can be checked using:

A : a testing program built in for this purpose

OKYH : What makes cargo holds of a General Cargo vessel weather tight?

A : Firm contact between the hatch cover rubber seals and the hatch coaming compression bar

OKYH : What makes cargo holds weather tight?

A : Firm contact between the hatch cover rubber seals and the hatch coaming compression bar

OLBD : During crude oil washing of No: 1C tank the duty deck officer reports that the oxygen reading in the tank is 9% . What should you do ?

A : Stop the washing process and not resume until the oxygen content in the tank is below 8%.

OLCQ : On a RoRo vessel, what should be done if a non dangerous goods ro-ro unit is found stowed in an incorrect location?

A : Mark the unit and amend the stowage plan whilst informing the Master and company

OLCQ : What should be done if a ro-ro unit is found stowed in an incorrect location?

A : Mark the unit and amend the stowage plan whilst informing the company

OLHT : At least, how often shall life boats be launched with their assigned operating crew aboard and manoeuvred in the water according to SOLAS?

A : Every three months.

OLKG : The ship is at anchorage. What is important to rise forward in daylight?

A : Anchor ball

OLLX : Long distance communication in the HF-bands depends on:

A : ionisation layers

OLNU : What is the deck water seal of the inert gas system`s purpose ?

A : Prevents the backflow of inert gasses into nonhazardous areas

OLNU : What is the deck water seal of the inert gas systems purpose ?

A : Prevents the backflow of inert gasses into nonhazardous areas



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

OLSM : Which of the following precautions would you take to ensure that you do not collapse due to the presence of gas in a recently cleaned cargo tank?

A : Refer to the applicable Enclosed Space Entry Permit to verify that the tank has been tested as gas free and is marked as safe for entry. If in any doubt, request a new test.

OLSM : Why is it especially necessary to continue to ventilate the tank and to continuously monitor the atmosphere when working inside a cargo compartment which still contains vegetable oil residues?

A : Because the decomposing residues continue to release hazardous gases, reducing the level of oxygen in the tank and making the atmosphere potentially dangerous.

OLSM : You have just completed cleaning cargo tanks that previously contained a range of liquid chemicals and the Chief Officer has instructed you and two other crew-members to enter the tanks for mopping. Which of the following precautions would you take to ensure that you would not collapse due to the presence of gas in one of these cargo tanks?

A : I would refer to the applicable Enclosed Space Entry Permit to verify that the tank has been tested as gas free and is marked as safe for entry. If in any doubt, I would request a new test.

OLTI : Which one of the listed requirements regarding inflatable liferafts corresponds to present regulations? Every liferaft shall be so constructed that:

A : fitted with water pockets of a highly visible colour and so designed as to fill to at least 60% of their capacity within 25 seconds of deployment

OLXQ : To which Act(s) do(es) the special provisions relating to the seafarers in the NIS Act chiefly relate?

A : The Act relating to hours of work and the Seamen's Act

OMBW : Maintenance of lifeboats and davit arrangements is routine work onboard. Why should you not carry out this type of work alone?

A : There might be a risk of falling even though harness and lifeline is used. A second person should always stand by to assist with tools etc. and other practical arrangements.

OMCP : Instructions for "Preparation for welding or hot work in cargo tanks" is laid down by the Norwegian Maritime Directorate. Which of the following requirements regarding welding or hot work corresponds to these instructions?

A : The tank shall be mechanically ventilated as long as there are people inside it.

OMDJ : What is the difference between a 2 stroke and a 4 stroke diesel engine ?

A : The camshaft rotates with half the RPM of the crankshaft on a 4 stroke engine.

OMGR : How many rocket parachute flares are carried in each liferaft with SOLAS B pack?

A : 2

OMHO : What is the meaning of this symbol ?

A : Fasten seat belts

OMHQ : When the bunkering operation is concluded, and before we are disconnect the bunkering hose from the ships manifold, the most important operation is :

A : Blow the bunker hose to avoid oil spill when the hose is disconnected



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

OMIP : Which of the following letter combinations represents a temperature controller on a process and instrumentation diagram

A : TC

OMIP : Which of the following letter combinations represents a temperature controller on a process and instrumentation diagram?

A : TC

OMJI : If abnormal vibration occurs, what will You do?

A : Stop the purifier immediately.

OMUO : A bulk coal cargo is to be loaded and the moisture content is declared as 19 ; the transportable moisture limit of the cargo is declared as 15, what should the Master do?

A : Refuse to load the cargo unless the vessel is specially designed for the carriage of cargo which may liquefy

OMWR : A walk-in refrigerator has been out of use for several weeks and needs cleaning. It has been closed for a long time because there is a suspicion that there may be a small gas leak from the cooling system. What should you do?

A : Seek advice from ther ships safety officer who will perform a risk assessment and advise on any precautions necessary.

OMXB : What is 'lateral drag'?

A : The sideways movement of a heavy load after its weight has been transferred to the ship's lifting gear

OMXB : What is lateral drag with reference to operations on a General Cargo ship?

A : The sideways movement of a heavy load after its weight has been transferred to the ship's lifting gear

OMXQ : Which Merchant Shipping notices are required to be carried on board?

A : Only Merchant Shipping Notices (MSNs)

ONDK : What is the ventilation requirement for pumproom and other spaces normally entered during cargo operations ?

A : Not less than 20 changes per hour.

ONFS : Why should there be checklists or work permits for hazardous operations?

A : To make sure the job is done under controlled conditions

ONGT : Which of the following is not a system for broadcasting MSI?

A : FLEETNET



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

ONHB : Many conventional reefer vessels are built with wooden gratings that support the cargo above the steel deck of the vessel. These gratings are typically carried on 50mm x 100mm wooden bearers. From the options given, select the most important consideration in relation to these wooden bearers.

A : The bearers must all be placed running in the same direction in the hatch.

ONHN : Which is the following parameters does an exposimeter measure?

A : The percentage of the L.E.L. in the ambient air

ONIG : In which locations will Ro-Ro units be stowed when a vessel is at sea?

A : Units stowed in way of fan duct exits

ONJG : In case of a fire on the line in an oxyacetylene-line gas-welding equipment, what action should be taken?

A : Close the valves on both bottles, first the acetylene and then the oxygen bottle

ONJG : In case of a fire on the line of an oxyacetylene gas-welding equipment, what action should be taken?

A : Close the valves on both bottles, first the acetylene and then the oxygen bottle

ONKB : Within territorial waters the use of transmitters is prohibited. In general this does not apply for:

A : Inmarsat-C equipment

ONPW : Which of the following detailed explanations should be mentioned in the Training Manual ?

A : How to release from launching appliances

ONQR : What kind of foot wear should be used when working on deck and in the engine room?

A : Safety shoes or safety boots

ONSQ : For a cargo compartment on a chemical tanker to meet the definition and requirements of a "pressure tank", what must its design pressure be?

A : Greater than 0.7 bar gauge.

ONSQ : For a cargo compartment to meet the definition and requirements of a "pressure tank", what must its design pressure be?

A : Greater than 0.7 bar gauge.

ONUY : Is it compulsory for a cargo ship to be divided into main vertical zones?

A : No it is not



OOAU : The physical size of a resistor is an indicator of its

A : Power dissipation capability

OOAU : The physical size of a resistor is an indicator of what aspect of its specification?

A : Power dissipation capability

OOAW : You are on duty on vessel "A", to avoid collision in the described situation, how will you act?

A : By giving the vessel a starboard turn

OOHC : What is silica gel normally used for on board liquefied gas carriers?

A : It is used as a drying agent for the inert gas.

OOHJ : What will you do if you are told to operate unknown mechanical equipment?

A : Ask your superior for advice before attempting to operate it.

OOIF : Some perishable cargoes which are normally carried refrigerated can also be carried non-refrigerated even on a long sea passage. This requires that the commodity is suitably packed and correctly ventilated during transport. Select the option which correctly completes the following statement. "The type of cargo most suited for a sea passage under ventilation only would be"...

A : ...onions.

OOKQ : Who is responsible for the ship being adequately manned?

A : The master and the shipowner are responsible for the adequate manning of the ship.

OOMJ : What kind of safety equipment should be in place in connection with a grinding wheel?

A : Goggles and shield.

OOMJ : What kind of safety equipment should be used when operating a grinding wheel?

A : Goggles and shield.

OOPY : You are commencing the loading of a cargo of Caustic Soda solution to several tanks. What precautionary measures will you take to avoid pressure shocks within the pipeline system?

A : Valves will be opened in a controlled manner and loading will be started slowly, increasing only when the correct flow of cargo has been verified and product has reached all required areas of

OOSE : In case of fire in the switch board, what kind of extinguishant to be preferred?

A : CO2



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

OOSW : Posters or signs shall be provided on or in the vicinity of survival craft and their launching controls. Which of the following requirements do not have to be included according to present regulations? (SOLAS III/9)

A : Give information on survival craft capacity

OOUR : What arrangement may be installed in passenger ships to reduce unsymmetrical flooding in damaged condition?

A : Cross flooding arrangement

OOXF : Where is a 'rose box' fitted?

A : At the suction ends of cargo hold bilge pipes

OOXF : Where is a "rose box" fitted on a General Cargo ship?

A : At the suction ends of cargo hold bilge pipes

OOYE : What is the function of the
M A I B ?

A : Investigating accidents/incidents and making reports

OPGG : Marine diesel engines are normally provided with automatic protection devices which operate in the event of abnormal conditions arising. Why would medium speed engines used for main propulsion normally only automatically slow down for certain abnormal conditions but automatically shut down for the same conditions when used to drive an alternator?

A : Sudden total loss of propulsive power may seriously endanger the vessel. This is a greater risk than engine damage.

OPMD : What is the normal procedure for cooldown cargo tanks prior to loading LNG?

A : Pumping cold LNG through the spray header.

OPMD : What is the normal procedure for cooling down the a cargo tank prior to loading LNG?

A : Introducing liquid LNG into the tank slowly through the spray lines.

OPNU : Which requirements must be considered when loading on weather deck?

A : All the mentioned alternatives.

OPPO : What is the result of a "high metacentric height"?

A : The vessel will roll violently?

OPQN : What is the main difference between a THERMOSTAT and a TEMPERATURE TRANSMITTER, if any?

A : The thermostat has one or more contacts (open or closed) depending on the temperature/setting. The temperature transmitter converts a temperature signal to an electric signal.



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

OPRI : How many pyrotechnic signals to be in each lifeboat marked SOLAS A PACK?

A : 4 Rocket parachute / 6 hand flares / 2 buoyant smoke.

OPSV : Which organization or administration is responsible for surveys and inspections of ships, and the issue of Safety Certificates?

A : Government Authorities of the Flag State

OPWD : What number of fire hoses is required for passenger ships? (SOLAS II-2/4.7.3)

A : One hose for each fire hydrant

OPWI : Which of the following spices comes from leaves?

A : Oregano

OQJH : The number of oscillations of a wave per seconds is called :

A : Frequency

OQHS : A medium speed diesel engine which is supported on a steel chocking system has had repeated problems with two of the chocks at the end of the engine on the port side becoming slack. This has led to some fretting damage to the bedplate and tank top in that area. What action should be taken to affect a cost effective permanent repair?

A : Replace the damaged chocks with resin based chocks of an appropriate size.

OQIC : At least how often shall rescue boats (MOB) be launched with their assigned crew and manouvered in the water?

A : Every three months

OQJQ : The economizer is used for

A : heat the feed-water

OQKO : What could be the reason to knocking in the engine?

A : Fuel injection advanced too far due to incorrect preinjection angle.

OQLL : What is NOT a precaution to be taken when topping off?

A : Notify the engine room of the procedure.

OQOS : At what minimum height above sea level a SART transponder must be mounted ?

A : 1 metre



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

OQPL : Which one of the listed requirements regarding hydrostatic release unit for float free arrangements for liferafts does not correspond to present regulations? Hydrostatic release units shall:

A : be provided with a painter system with a breaking strength of not more than 2.2 kN

ORQU : What is the maximum oil content in the sludge/ bilge water allowed to be pumped over board during a voyage?

A : 30 litres pr. nautical mile

ORCX : How should structural steel products be supported in a cargo hold?

A : Athwartships dunnage spaced 3m apart provided in a vertically straight line at every tier

ORCX : Why do structural steel products often shift or collapse in a bulk carrier's cargo holds?

A : Because the irregular shape of the cargo holds results in void spaces

ORCX : Why do structural steel products often shift or collapse in a bulk carriers cargo holds?

A : Because the irregular shape of the cargo holds results in void spaces

ORDD : How is the painter attached to the lifeboat released once the boat is waterborne and ready to leave?

A : Cut it with the knife contained in the equipment locker

OREP : Is smoking permitted in the engine room? If yes; where?

A : Smoking is only permitted in designated places.

ORFJ : Which of these foodstuffs contributes to lowering the cholesterol content in the blood?

A : Fat fish

ORHE : What is the purpose of the relief valves fitted to the doors and casing of 2 stroke diesel engine crankcases?

A : To relief pressure in a crankcase explosion

ORIW : This circuit consists of two capacitors, $C(1) = 6 \mu\text{F}$ and $C(2) = 12 \mu\text{F}$, in series. Calculate the equivalent $C(S)$ of the two capacitors.

A : $C(S) = 4 \mu\text{F}$

ORIW : This circuit consists of two capacitors, $C(1) = 6 \mu\text{F}$ and $C(2) = 12 \mu\text{F}$, in series. Calculate the equivalent $C(S)$ of the two capacitors.

A : $C(S) = 4 \mu\text{F}$



ORMA : Which channel is used for VHF DSC distress calls

A : 70

ORNB : When people jump into the water from a ship, what should they do?

A : Grab the lifejacket near the shoulder.

OROR : For a DSC-connection (no 'distress alert') with another vessel the following frequencies are used:

A : TX: 2177.0 kHzRX: 2177.0 kHz

ORTG : It is sometimes possible that sections of the cargo pipelines on an LNG carrier can be isolated in the liquid filled condition. What are the Gas Code requirements for such sections of the system?

A : They must be fitted with a pressure relief valve.

ORTG : What is important to keep in mind about U-profiles that are used on pipes supports?

A : They must not be fastened against the pipe.

ORWY : What does the breakdown of topside internal tank coatings indicate?

A : Distortion of tank structure

ORWY : Why do Bending Moment (BM) curves sometimes differ between the loading manual and loading computer?

A : Because BM values in loading manuals are often taken at the bulkheads whereas loading computers calculate stresses at intermediate points as well

ORXC : The quantity of a cargo required to be carried in a type 1 ship should not exceed :

A : 1250 m³

ORXV : In order to speak clearly and effectively you should:

A : open your mouth, pronounce your consonants, and shape your sounds well

OSAI : If, during a discharging, a breakdown appears on the inert gas plant, resulting that no inert gas is available to replace the discharging cargo. What will you do?

A : Immediately stop the discharging.

OSAK : Give the meaning of the following symbol

A : Portable fire extinguisher



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

OSBA : Which one of the listed requirements regarding the stowage of lifeboats and liferafts do not correspond to present regulations? (SOLAS II/13.3 - 13.6)

A : Liferafts intended for throw-overboard launching shall be stowed amidships secured to means for transfer to either side

OSDQ : Who is authorized to operate hoisting equipment?

A : Personnel authorized by the master?

OSDY : What do you understand by the expression Master Controller

A : The primary controller in a cascade control system

OSDY : What do you understand by the expression Master Controller?

A : The primary controller in a cascade control system

OSEJ : What special requirements applies to fire alarm signalling systems in passenger ships

A : Fail safe, Centralized in a continuously manned control station, Remote control of fire doors, Indication of open or closed fire doors, Reactivation of ventilation, Detector status, Back up po

OSER : For a Purifier and Clarifier System should the oil be passed first through the purifier?

A : Yes.

OSFJ : Which item among those below is included in the normal equipment of every liferaft ?

A : two sea-anchors, one being spare

OSFK : What kind of cleaning product would you use to remove burnt food remains?

A : Strong alkaline solution.

OSHF : Which of the following has highest diffusion resistance?

A : Polyurethane.

OSIO : Which class of emission is used for VHF DSC transmissions ?

A : F1B

OSKG : A large vessel develops a sudden sheer when it stops moving through the water, having been steaming through a shallow water channel for several miles. The sheer may be strong and unexpected and is due to what reason?

A : - The large volume of water dragged behind the vessel continues to move forward and cause a strong turning moment on the stern of vessel



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

OSLF : Where shall you be able to activate the ship security alert system on board passenger ships?

A : From the navigation bridge and in at least one other location

OSNR : How will you act if you are helmsman and after making a turn to port you receive the order: "Steady as she goes"

A : Read off the compass and keep her steady on the course

OSOO : Which of these emission control requirements is correct?

A : Low sulphur fuels reduce emissions of volatile organic compounds

OSPJ : Is there any demands regarding double bottom for large passenger ferry and cruiseship.

A : Yes, in ship of 76 m in length and longer, a double bottom shall be fitted midship, and extend to the fore and after peak bulkheads, or as near as practicable.

OSQD : On a RoRo vessel, what is important with regard to a loading ramp resting on a jetty?

A : It must not foul the ship's mooring ropes

OSQD : What is important with regard to a loading ramp resting on a jetty?

A : It must not foul the ship's mooring ropes

OSTK : How should the hook be released from a davit lowered liferaft?

A : Just prior to reaching the water, the lanyard should be pulled. This sets the hook which will automatically release once the raft is waterborne

OTAE : There are two main methods used to remove dirt, which?

A : Mechanical and chemical.

OTBC : The centre cargo tanks on your ship are made of stainless steel, while the wing tanks are made of mild steel with a zinc coating. Your ship is to load some phosphoric acid. Which tanks will it be loaded in?

A : Only the stainless steel centre tanks.

OTBC : The centre cargo tanks on your ship are made of stainless steel, while the wing tanks are made of mild steel with a zinc coating. Your ship is to load some Sulphuric Acid. Which tanks will it be loaded in?

A : Only the stainless steel centre tanks.

OTDK : What is the meaning of this symbol ?

A : Release gripes



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

OTFG : Where do you find minimum drill requirements?

A : In the SOLAS convention.

OTGX : For the connection between VHF and antenna must be used:

A : a coax cable of proper impedance

OTMO : What is the requirement for a stability booklet covering bulk carriers that carry cargoes other than grain?

A : If written in a language other than English the vessel must also carry a booklet written in the English language

OTQA : What is the mathematical relationship between temperature and density?

A : Higher temperature leads to lower literweight.

OTTM : Generally speaking, what is the value commonly recognised as the maximum concentration of CO allowed in the breathing air of a breathing apparatus?

A : 20ppm

OTUG : You have just discharged a Category "A" chemical cargo and are making the first wash of the tank that had contained it. The washing contain a chemical residual concentration of over 0.1% by weight. You can:

A : Discharge the washing to shore reception facilities only?

OTUI : In a low pressure auxiliary boiler, if after testing the water, You found the P. alkalinity to be 50 PPM CaCO₃, what action would You take?

A : Increase dosage.

OTVO : The compass binnacle on the ship has various specific functions, which of the following answers reflect its most important functions.

A : All of the answers provided

OTYF : A ship is being overtaken by another ship while proceeding along a river. What should be the required procedure?

A : The bow may be sucked against, and the stern may be pushed away from the other ship as you pass

OUBM : What name is given to the flow diagrams that appear in the Annex II Procedures and Arrangements Manual, which guide the user through the methods to be followed in cleaning a tank after containing a Noxious Liquid Substance?

A : Cleaning and Disposal Procedures.

OU DL : The PTT-switch must
b e :

A : pressed in during speaking only to work semi-duplex



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

OUNN : During operation: What is one of the most important differences between a centrifugal pump and a piston pump?

A : It is easier to damage a centrifugal pump than a piston pump if they run dry.

OUNW : On a Container vessel, what will happen if an unsafe stevedore working practice in the United States is not corrected by ships personnel?

A : The ship will be prosecuted

OUNW : What will happen if an unsafe stevedore working practice in the United States is not corrected by ship's personnel?

A : The ship will be prosecuted

OUOE : The figures show a graphical symbol for a particular electronic component and a typical operating characteristic for the same. Which component?

A : Transistor

OUOE : The figures show a graphical symbol for a particular electronic component and a typical working characteristic for the same. Which component?

A : Transistor

OUOI : What is the meaning of this symbol ?

A : Lifejacket

OUOJ : Dish aerials are used with:

A : Inmarsat -B and -M

OUPW : Through time the container stools on the weather deck / hatch tops of a container vessel can suffer from corrosion and wear down. Select the most dangerous consequence of ignoring this.

A : The deck stool may collapse causing the lashings to go slack.

OURT : Whats the USCG requirements for a Vapor connection on board ?

A : Each vessel vapor connection flange must have a permanently attached 0.5 inch diameter stud at least 1.0 inch long projecting outward from the flange face. The stud must be located at the top of the flange, midway between bolt holes, and in line with the bolt hole pattern.

OUOH : What are the four categories to which noxious liquid substances carried in bulk are assigned under MARPOL Annex II?

A : X,"Y" and "Z", plus "other substances".

OUOH : What are the three categories to which hazardous liquid chemicals are assigned under MARPOL Annex II?

A : X,Y and Z



OVAY : What is a Declaration of Security?

A : A checklist jointly completed by the ship and shore security representatives

OVVG : What is the minimum number of immersion suits that are required to be provided for each open lifeboat under SOLAS rules?

A : 3

OVKE : A piston ring set for a trunk piston engine often includes a slotted ring tensioned by an internal spring. What is the purpose of this type of piston ring?

A : It is an oil control ring.

OVFY : What do you understand by: Bitter end?

A : Bitter end means: the end link of an anchor cable that is secured within the chain locker

OVHR : Shock is a manifestation of changes in which the circulation fails because either pressure or volume of circulating blood has fallen to a dangerous level. What is the skin colour of a patient in shock?

A : Pale or grey.

OVHR : Shock is a manifestation of changes in which the circulation fails because either pressure or volume of circulating blood has fallen to a dangerous level. What is the skin colour of a patient in shock?

A : Pale or grey.

OVIH : What is the meaning of this symbol ?

A : Start water-spray

OVKD : Before you close the main gatevalve at the ships bunkering manifold, you should notify:

A : The officer in charge at the barge or the foreman in charge if it is at a shore facility

OVKW : If you alter the field excitation voltage of one alternator operating in parallel, this will cause change in that alternators:

A : Reactive load (kVAR)

OVKW : If you alter the field excitation voltage (or field current) of one alternator operating in parallel, this will cause change in that alternators:

A : Reactive load (kVAR)

OVKY : The maximum cylinder pressure is lower than normal due to:

A : Fuel oil with poor combustion properties.



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

OVLW : What is an analogue signal?

A : A variable electric signal.

OVQS : Which radio frequency/channels are reserved for emergency communication?

A : 2182 kHz/VHF channel 16

OVRL : What is the purpose of section ALC 6 in the Crew Agreement?

A : Copy of crew agreement posted in a conspicuous place giving details of relevant information and contractual clauses as per ALC 1d

OVRM : How many emergency power supply sources are required for fire-detection and fire-alarm systems? (SOLAS II-2/13.1.3)

A : One

OVSH : Where on board would you find out which fire sections are enclosed by "A" or "B" class divisions?

A : On the fire control plan

OVTB : Which of the following terms describes the cooking technique where food, such as a portion of fish, is placed in a shallow dish and partially covered by a liquid and then brought to and maintained at a temperature just below the boiling point?

A : Poaching.

OVUT : What kind of cleaning product would you use to remove skin fat and toilet soap in showers/bathrooms?

A : Neutral to alkaline solution.

OVUY : The command of radio communication with inter-ship traffic is with:

A : the calling station

OVVR : On which international instrument, if any, are the regulations on employment agreement and settlement of wages based?

A : On ILO 22

OVWL : Your vessel is moving in Panama Canal waters. When must a crew man capable of and ready to operate the anchors be on the forecandle?

A : When a Panama Canal pilot is onboard

OWAU : What material should boiler suits be made of?

A : Cotton



OWBR : If the water goes out of sight in the gauge glass, the first thing to do is

A : Secure all burners

OWDI : Give the meaning of the following symbol

A : Survival craft distress pyrotechnic signals

OWFT : Which of air and water is the fluid that transfers the greatest amount of heat during the same time, given that the fluid is not flowing along the immersed body?

A : water

OWFU : What is the meaning of this symbol ?

A : Release gripes

OWFW : Which one of the listed requirements regarding abandon ship drills corresponds to present SOLAS regulation?

A : Each lifeboat shall be launched with its assigned crew, and manoeuvred in the water at least once every three months during an abandon ship drill.

OWFX : You are approaching a port when you see three lights in a vertical line. The upper and lower are green and the middle white. What does this mean?

A : A vessel may proceed only when it has received specific orders to do so

OWGL : Which of the following fresh fruits should be used first?

A : Grapes

OWGN : Overshoot

A : It is how many degrees a ship continues to turn after you apply counter-rudder

OWLM : Which of the following spaces is a "special category space"?

A : A garage tweendeck on a passenger ferry

OWLQ : A PH scale (meter or strip of paper) has values from 0 to 14, which values has alkaline?

A : 41821

OWOE : If a boiler is smoking "white smoke" a possible cause can be

A : Too much combustion air



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

OWPJ : In the event of an accidental or other exceptional discharge into the sea of a Noxious Liquid Substance or mixture containing such a substance, an entry shall be made in the Cargo record Book. What details must be recorded?

A : Time of occurrence; Approximate quantity, substance(s) and Category(ies); Circumstances of discharge or escape and general remarks.

OWQM : While navigating using a paper chart marked WGS84 the OOW plots the ships position by four different methods and they all give slightly different positions. Which of the following would be considered the most accurate.

A : - Gyro compass bearings from two lighthouses

OWQM : While navigating using a paper chart marked WGS84 the OOW plots the ships position by four different methods and they all give slightly different positions. Which of the following would be considered the most accurate.

A : Most attacks take place in territorial waters

OWRH : You are going to be at sea for 30 days with a crew of 30 men. How many eggs would you buy?

A : 2000

OWWM : Which of these procedures should crew follow when conducting a search?

A : "Stand quietly in various spots around the space, listening for unusual sounds like the tick tock of a clock mechanism."

OWYX : Cargo hoses intended for liquefied gas carriers have to be prototyped tested before being approved. When new hoses of an already approved type are received onboard they also need to be pressure tested before being put into service. What are the IMO Gas Code requirements for such hoses before they are put into service?

A : Not less than 1.5 times the specified maximum working pressure or more than two fifths of bursting pressure at ambient temperature.

OXAN : What sound signal shall be used on ships whistle when man-over-board?

A : 3 long blasts repeatedly

OXAN : What sound signal shall be used on ships whistle when there is a man overboard?

A : 3 long blasts repeatedly

OXAS : During standstill liquid may condense in the crankcase or oil separator. Why is it important to heat up the oil before start?

A : To avoid the compressor-oil to disappear from the crankcase during starting.

OXDG : The training manual shall contain instructions and information in easily understood terms and illustrated wherever possible. Which of the following objects do not have to be explained in detail in the manual according to present regulations?

A : Means of escape - escape routes

OXET : Which month is the season for strawberries in South Africa?

A : December



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

OXFU : Radio direction-finding installations shall comply with certain requirements. Which one of the listed requirements do not correspond to present regulations?

A : Direction-finders to be installed on, or as near the navigating bridge as possible

OXKW : If a coast-station doesn't answer a call on VHF working channel or doesn't send a reply signal:

A : you must call on another working channel

OXLR : An excessive pressure drop across a lube oil strainer could indicate:

A : That the strainer needs cleaning.

OPYX : What is the cargo owners main issue by requesting tankers to exercise COW?

A : To maximize discharge outturn?

OYAM : If your chemical tanker is equipped with high velocity venting valves, at what minimum height above the weather deck or catwalk should they be installed?

A : 3 meters

OYEL : What does the term "ullage" refer to?

A : The depth of free space left in a cargo tank above the current liquid level.

OYEL : You have just completed loading a cargo of Caustic Soda in 2, 3 and 6 centre tanks. The Chief Officer instructs you to accompany the Cargo Surveyor and check the ullages. What does the term "ullage" refer to?

A : The depth of free space left in a cargo tank above the current liquid level.

OYEL : You have just completed loading a cargo of Caustic Soda in 2, 3 and 6 centre tanks. The Chief Officer instructs you to accompany the Cargo Surveyor as the ullages are checked. What does the term "ullage" refer to?

A : The depth of free space left in a cargo tank above the current liquid level.

OYMC : What is a "Oxygen Dependent" inhibitor ?

A : It's a product added into a cargo in order to keep the cargo stable. This cargo should never be blanked with nitrogen because the inhibitor needs oxygen to be effective.

OYTW : When loading cargo, once it has been established that cargo is entering the correct tank and line integrity is OK, loading rates should be increased to:

A : Match the size and capacity of the ship's loading line, venting system and static generation hazard limitation, if any?

OYTX : Where should a sample for boiler water test purposes be taken from?

A : From the water space.



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

OYXH : What will happen if a centrifugal pump is fitted without a non-return valve on the delivery side?

A : It will give full back flow at the time the pump stops.

OYXH : What will happen if a centrifugal pump is not fitted without a non-return valve on the delivery side?

A : It will give full back flow at the time the pump stops.

OYYK : Which plan shows the position of the centre of gravity of every tank aboard the ship?

A : Capacity plan

OYYQ : Food rations provided to each person the liferaft is permitted to accommodate is totalling:

A : 10 000 kJ/person

OYYW : How can you arrange for safe movement of passengers on ro-ro decks?

A : Passengers should be warned of vehicle movements when entering or crossing car or vehicle decks. They should preferably keep to walkways while moving about the ship.

PANA : What is the meaning of TLV and what unit do we use on it?

A : TLV is the threshold limit value and the unit is ppm - parts per million.

PANF : A pan on the galley stove containing oil catches fire, which of the following should NOT be used on this type of fire?

A : Use water extinguisher to put out the fire.

PAOU : Which of these situations will cause undue delay to a vessel at her port of discharge?

A : Asbestos mixed with the cargo

PAOY : What is the normal name of the waterproof suit shown in the picture?

A : He is to help the other crew members and fetch more Vaseline from the storage room if they run short

PAQS : During routine checking of alarm functions of main and auxiliary equipment, some setpoints are canceled due to a mistake. What is the appropriate routine to ensure correct setpoints are set?

A : Consult with the instruction manual for the equipment in question for correct values.

PAQS : During routine checking of alarm functions of main and auxiliary equipment, some setpoints are canceled due to a mistake. What will be the appropriate routine to ensure correct setpoints are set?

A : Consult with the instruction manual for the equipment in question for correct values.



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

PAQS : During routine checking of alarm functions of main and auxiliary equipment, some setpoints are cancelled due to a mistake. What is the appropriate routine to ensure correct setpoints are set?

A : Consult with the instruction manual for the equipment in question for correct values.

PAQV : What kind of safety equipment must be worn during anchoring?

A : All of the mentioned equipment.

PAUK : The IBC Code prescribes certain design conditions for a cargo heating or cooling system. What does it require in respect of pressure within such a system, for any condition other than when it is empty?

A : That a higher pressure can be maintained within the system than the maximum pressure head that could be exerted by the contents of the cargo tank on that system.

PAUK : The IBC Code prescribes certain design conditions for a cargo heating or cooling system fitted to a chemical tanker. What does it require in respect of pressure within such a system, for any condition other than when it is empty?

A : That a higher pressure can be maintained within the system than the maximum pressure head that could be exerted by the contents of the cargo tank on that system.

PAUK : The IBC Code prescribes certain design conditions for a cargo heating or cooling system. What does it require in respect of pressure within such a system, for any condition other than when it is empty?

A : That a higher pressure can be maintained within the system than the maximum pressure head that could be exerted by the contents of the cargo tank on that system.

PAUY : On area A3 the function " Transmission and reception of signals for locating " is mainly based on:

A : the use of SART transponders

PBFX : Which one of the listed requirements regarding the use of an immersion suit do not correspond to present regulation? The suit shall permit the wearer to :

A : climb up and down vertical ladders from the survival craft embarkation point to the water

PBHG : A

A : 60 minutes

PBIF : What is a "Rescue Sub-Centre" (RSC)?

A : A unit subordinate to a rescue co-ordinating centre

PBIG : Where are you likely to find horizontal fractures on a bulk carrier?

A : Along the upper edges of hopper tank plating and the lower edges of topside tank plating

PBKR : What is the meaning of "remote mode" related to a slave controller

A : The slave controller receives the set-point from the output signal of the master controller



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

PBKR : What is the meaning of "remote mode" related to a slave controller?

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PBKT : You are Sen.Off.Deck on vessel "A" and your cargo is iron ore. The vessel is in narrow waters and you have been in a collision with vessel "B" causing your vessel to take in water. How will you act to save the vessel and the cargo?

A : - Put the ship aground on a soft sandy bottom as soon as possible

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A : - Put the ship aground on a soft sandy bottom as soon as possible

PBLQ : How often shall watertight doors in main transverse bulkheads which is in use at sea be operated (tested)?

A : Daily

PBQI : The ID of an Inmarsat M station on board starts with:

A : 6

PBRK : Which one of the listed requirements regarding buoyant smoke signals do not correspond to present regulations? The buoyant smoke signal shall:

A : give a bright red light during the entire emission time

PBSG : On a Bulk Carrier, what causes deterioration of a hatch cover hydraulic system?

A : Dust and cargo particles around the piston seals

PBSG : What causes deterioration of a hatch cover hydraulic system?

A : Dust and cargo particles around the piston seals

PBTW : The steps of the embarkation ladder used must be spaced apart by a distance of:

A : equally spaced, not less than 300 mm or more than 380 mm



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

PBVP : Too low exhaust temperature in one cylinder becomes because of:

A : Any of the others.

PBVP : Too low exhaust temperature in one cylinder becomes because of:

A : Faulty fuel injection valve.

PCCF : You have made a turning circle at full speed in deep water. You are now going to make one with initial speed, slow ahead. Do you think the diameter will differ from that of initial full ahead?

A : The diameter will be the same whatever initial speed we have when starting the turn

PCCF : You have made a turning circle at full speed in deep water. You are now going to make one with initial speed, slow ahead. Do you think the diameter will differ from that of initial full ahead?

A : - No, the diameter of the turning circle would be almost the same.

PCEC : Breathing apparatuses is an important piece of equipment for being able to fight a fire onboard a vessel. What routine precautions to be observed with regard to use and maintenance of such equipment?

A : All the mentioned alternatives.

PCHA : In which ships shall fire hoses be connected to hydrants in interior locations at all times? (SOLAS II-2/4.7.1)

A : Passenger ships carrying more than 36 passengers

PCHF : Which of the following food groups contains the most energy per 100 grams?

A : Fats

PCHH : Which of the following instruments is normally part of a control-loop

A : Transducer

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A : Transducer

PCHJ : On a Container vessel, what would you do if you were told that cargo on a flatrack has a tendency to deform or to compact during the voyage?

A : Ensure that the cargo is secured as per shipper's instructions

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CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

PCIV : Which type of call will be sent by a ship in danger of capsizing and needing assistance from all vessels in her vicinity ?

A : Distress call

PCJS : Using a wide mop on polished floors is considered better than using brush and cloth. Why?

A : The floor surface becomes cleaner.

PCJU : For carbon dioxide fire-fighting systems for machinery spaces the fixed piping system shall be such that: (SOLAS II-2/5.2.4)

A : 85% of the gas can be discharged into the space within two minutes

PCOU : What will you do if you are told to operate unknown mechanical equipment?

A : Seek advice from your superior before attempting to operate it.

PCVI : Which class of fire involves gas?

A : Class C fire

PCVX : What causes fatigue damage to a ship's fore end structure?

A : Regular panting cycles

PCVX : Why is it important in a RoRo vessel to ensure that cargo is loaded in a uniform way

A : To prevent high sheer forces and bending moments on the vessel during the loading / discharge operations

PDJX : What is the minimum number of immersion suits that are required to be provided for each open lifeboat under SOLAS rules?

A : 3

PDPR : How often must routine inspections of the crew accommodation take place

A : Weekly

PDRS : Insulation resistance measurements may be influenced by which of the following?

A : Temperature, humidity and surface contamination

PDRS : When performing electrical testing of a three phase motor, insulation resistance measurements may be influenced by which of the following?

A : Temperature, humidity and surface contamination



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

PDWB : A ship has an electrical system rated at 690 Volts. Which voltage level is this?

A : Low voltage.

PDXN : What will happen if you overload the plate in a microwave?

A : Cooking will be uneven and there will be "cold spots" in the food.

PEBE : What do you call the wide rung on a pilot ladder that prevents the ladder from twisting?

A : The wide rung on a pilot ladder that prevents it from twisting is called a Spreader

PEBH : A 250V contactor has been fitted to a 220V supply. Which of the following symptoms might be observed?

A : Contactor chattering (vibrating)

PEIE : How many lifejackets are required in a passenger cabin?

A : Same number as beds in the cabin

PEIT : Which of these weapons are widely available and commonly used by criminals and terrorists to further their aims?

A : Gun

PEJQ : What criteria are used to assess a bulk carrier's Fatigue Strength?

A : Cargo density

PEJV : Which of the following is the purpose behind holding a pre-cargo transfer meeting?

A : To ensure that all personnel involved are aware of the details of the proposed cargo operation, the services required and the safety considerations.

PEJV : Which of the following is the purpose behind holding a pre-cargo transfer meeting before discharging a number of chemical grades?

A : To ensure that all personnel involved are aware of the details of the proposed cargo operation, the services required and the safety considerations.

PETM : With a "good" GPS satellite position fix it is possible to achieve an accuracy of:

A : 20 - 100 meters.

PETN : The purpose of the surface blow valve

A : remove any oil or scum on water surface



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

PEUL : Select, from the options given, the one most likely to result in a sudden reduction in main diesel engine operating speed during normal operation.

A : Fuel oil pipes or filters are clogged.

PEVP : What is a safe angle between a cargo lashing and eye plate?

A : 90 degrees

PEVT : On a Container vessel, what is the definition of Readily Combustible Solids, under the IMDG Code?

A : Fibres, powdered, granular, or pasty substances which are dangerous if easily ignited by brief contact with an ignition source and if the flame spreads rapidly

PEVT : What is a combustible substance?

A : A substance capable of self-heating and self-ignition

PEVT : What is a spontaneously combustible substance?

A : Any substance that can self-heat and self-ignite

PEVT : What is a spontaneously combustible substance, within the context of carrying dangerous goods?

A : Any substance that can self-heat and self-ignite

PEVT : What is the definition of Readily Combustible Solids, under the IMDG Code?

A : Fibres, powdered, granular, or pasty substances which are dangerous if easily ignited by brief contact with an ignition source and if the flame spreads rapidly

PEVX : How much water would you allow per person as officer in charge of the lifeboat, following an abandon ship operation?

A : Nothing for the first 24 hours, then 1/2 litre per day (more in the tropics)

PEWY : Which item among those below is included in the normal equipment of every liferaft ?

A : instructions for immediate action

PEXB : Certain oil cargoes, such as aviation turbine kerosenes or diesel oils, are specifically noted in ISGOTT as having an inherent hazard that requires ships staff to monitor tanks containing them when on passage. What is that hazard?

A : They can absorb oxygen during the refining process and later release it into oxygen deficient atmospheres such as the ullage spaces in cargo tanks; the spaces should be monitored and the atmo

PFDR : A burn may occur when electricity of high current and voltage passes through the body. Most damage occurs at the points of entry and exit of electricity. What is the treatment of electrical burns?

A : Place sterile dressing over the burn and secure with a bandage.



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

PFDT : In terms of an oil tanker fitted with two slop tanks, how are they commonly referred to?

A : Primary and secondary slop tank.

PFHW : One of the purposes to MARPOL Annex I is

A : Prevent operational oil pollution by providing ships with discharge criteria and other guidelines to follow.

PFHW : When connecting and disconnecting LNG cargo lines extreme care must be taken to avoid skin contact with the LNG cargo, especially the liquid. Why is skin contact with liquid LNG likely to have much more severe consequences than skin contact with LNG vapour?

A : The liquid LNG has a much greater cooling effect as it vaporises in contact with bare skin which may result in severe frostbite.

PFKA : The fire control draft on board is called the safety plan and shall be posted onboard. In port, a copy of this plan shall in addition be available from somewhere else. Where must this copy be available?

A : At the gangway.

PFKF : Why is an inertgas system required when COW is

A : Safety purpose?

PFMC : Many reefer vessels are fitted with controlled atmosphere systems (CA). There are a number of different systems available but generally they all work by introducing nitrogen into the cargo space. Select, from the options given, the main reason why nitrogen is generally the gas chosen for controlling the atmosphere in the cargo spaces of a reefer vessel.

A : Nitrogen displaces the oxygen in the cargo space and allows the respiration of the fruit to be controlled.

PFNQ : When a licensed mariphone is replaced:

A : the old mariphone must be checked out and the new one must be checked in

PFNU : In a smoke filled alleyway, where will the cleanest air be found, and how should you proceed out?

A : Near to the deck, crawl out keeping your face as near to the deck as possible

PFOM : How often should oxygen valves, tools etc be oiled or greased?

A : Never.

PFPG : Which of these foods, when consumed in high quantities, will increase the cholesterol level over time?

A : Pork

PFRD : What is the secondary purpose of a radio installation onboard?

A : To take part in public traffic



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

PFXR : A pressure gauge of the bourdon tube type is reading incorrectly and shows 2 bar when the pressure in the system is zero. There is no spare available. Which of the options would be the best temporary remedy for this situation?

A : Use a deadweight tester to mark a new scale on the gauge throughout the working range.

PGEI : What should you take into consideration when discharging from the cardeck(s)?

A : To discharge evenly from each side, to avoid heavy list

PGFF : In a low pressure auxiliary boiler, if after testing the water You found the P. alkalinity to be 450 PPM CaCo₃, what action would You take?

A : Blow down boiler and reduce dosage.

PGHS : Most cases of oil pollution are caused by human errors, often jointly by seafarers and shore based clean-up teams. What has proved to be the essential mistake executed by the shore people regarding environment damages?

A : Dispersement of chemicals?

PGHU : You will be serving a four-course dinner consisting of soup, sweet, main dish of meat and main dish of fish. When would you serve the fish?

A : As the second course.

PGII : The operating mode of a pyrotechnic signal depends essentially on:

A : instructions or diagrams printed on its casing by the manufacturer

PGIK : What is the requirement as regards stopping arrangements for power ventilation of accommodation spaces, cargo compartments, machinery spaces, service spaces and control stations?

A : Ventilation must be capable of being stopped from an easily accessible position outside the space being served

PGKC : You are on ship A. What would you do before meeting ship B?

A : Stop the engine before meeting, and apply engine during meeting

PGLW : Which one of the listed requirements regarding the stowage of a survival craft do not correspond with present regulation? (SOLAS III/13. Each survival craft shall be stowed:

A : so that neither craft nor stowage arrangement interfere with the general operation of the ship

PGNP : If you have a nozzle with 10 holes, how many clogged holes can you accept ?

A : 0

PGSL : One cylinder of a diesel engine has to be cut out to allow continued operation of the engine. Which of the following options may be the cause of the problem?

A : Injection pump failure.



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

PGWD : What are the diagrams posted close to lifeboat boarding positions, called?

A : The diagrams posted close to lifeboat boarding positions are called, Lifeboat Launching Instructions

PGWD : What are the lists called that give the position and task during a lifeboat drill for all persons on board the ship?

A : The Muster List

PGXN : Before commencing ballasting for departure, the cargo tanks are surveyed. The small amounts of cargo left in the cargo tanks are called ROB. What does this mean?

A : Remaining on board.

PGXN : Before commencing ballasting for departure, the cargo tanks are surveyed. The small amounts of cargo left in the cargo tanks are referred to as "ROB". What does this abbreviation mean?

A : Remaining on board.

PGXQ : What is the main purpose of bottom-blowing a boiler?

A : To get rid of sludge in the water chamber.

PHDH : Why is especially necessary to continue to ventilate the tank and to continuously monitor the atmosphere when working inside a cargo compartment which still contains vegetable oil residues?

A : Because the decomposing residues continue to release hazardous gases, reducing the levels of oxygen in the tank and making the atmosphere potentially dangerous.

PHDH : Why is the overboard discharge outlet on a chemical tanker located below the waterline?

A : To ensure that the cargo residues pumped out during tank washing are thoroughly dissolved and distributed in the ships wake.

PHEI : You are going to grind (mince) meat for use in different dishes, including burgers. Which of the following cuts of meat would you use?

A : Silverside

PHKE : What type of search pattern is recommended in the IAMSAR Manual as most effective when the location of the search object is known within relatively close limits?

A : - Expanding Square Search..

PHFB : What is the purpose of pressure-vacuum relief valves?

A : To maintain a tank at atmospheric or overpressure.

PHGS : Some engine manufacturers recommend that washing of the compressor side is not carried out. Is this due to:

A : Greasy sludge from the compressor sticking between the fins in the air coolers, necessitating extra cleaning of these.



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

PHHM : On the figure 4 possible definitions of the term "FAIRLEAD" are given. Which one is the correct one?

A : Fairlead is given by C on the figure

PHLT : With an Inmarsat-C terminal the option 'PSTN' for addressing is available. This option:

A : to deliver a message by telephone via a modem on the computer of the subscriber

PHOE : In the radio telex-traffic the landline-connection with a subscriber a shore will be broken with the following command:

A : Kkkk

PHOE : In the radio telex-traffic the landline-connection with a subscriber ashore will be broken with the following command:

A : Kkkk

PHPE : An immersion suit is:

A : not allowing undue ingress of water after a jump from a height of not less than 4,5 m into the water

PHSB : Why cant we use inert gas from a combustion-type generator when preparing cargo tanks for ammonia?

A : Because ammonia reacts with the carbon dioxide in the inert gas.

PIAV : What is the connection between ethylene gas and food?

A : Ethylene is the gas produced by most fruits and vegetables during the ripening process

PIBQ : When may a call for radio medical advice be preceded by the urgency-signal:

A : in urgent cases

PIIA : Which type of piston compressor is most common as a cargo compressor?

A : It is double acting oil free piston compressors

PITC : What would the results of a TAN test, carried out on lubricating oil samples from a diesel engine, indicate?

A : Total content of organic and inorganic acids in the oil.

PIUV : According to the "Regulation and Restrictions" of the mariphone license, the mariphone:

A : may only be present at the place, as indicated in the license



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

PIWK : During a ship to ship cargo transfer operation it is required that:

A : An efficient engine room watch with the main engine on standby be maintained.

PIXT : With a bulk ship in port, when would it be permissible to start painting over-side?

A : After obtaining permission from the port authority

PIXT : With the ship in port when would it be permissible to start painting over-side?

A : After obtaining permission from the port authority

PJCN : As per the legislation in question, a copy of the provisions, as you know, shall generally speaking be accessible to the crew. Does this apply as well as to a collective wage agreement?

A : Yes, if an employment agreement refers to the collective wage agreement

PJEU : With help of DSC a ship wants to contact a coast-station to have a question for telephone call. One has to choose from the following DSC-frequencies

A : TX: 8415.0 kHzRX: 8436.5 kHz

PJGK : Training is required when new equipment is installed on board the ship. What kind of training should be provided and for whom?

A : Theoretical and practical training should be provided for all personell involved in operation of the new equipment

PJIP : What is essential to ensure that efficient stripping of ballast tanks on a Bulk Carrier can be achieved?

A : A good stern trim is maintained during de- ballasting operations

PJKV : What entries need to be made in the Official Log book in relation to a death on board?

A : Section on Births and Deaths to be completed, and entries made in Official Log Book detailing circumstances of the death and actions taken on board. Deceased is signed off the crew agreement in his absence

PJMF : Which of the following symptoms would indicate that the filter drier in a refrigeration circuit has become blocked?

A : A large temperature drop across the drier.

PJOF : Select the three main checks that must be made to ensure that a hold of a General Cargo Vessel is fully weathertight before sailing ?

A : Hatch cover fully secured, hold access battened down and bilge sounding pipe caps on

PJQP : When is it compulsory with emergency wires, fire wires?

A : During loading/discharging of persistent/non persistent oil?



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

PJQQ : What refrigerant temperature would you expect at the freon compressor discharge of a cascade system?

A : + 85° C

PJRQ : When tank cleaning after discharging a cargo of polymerising products (such as styrene monomer), you would, in order to avoid deposits of polymerised material:

A : Pre-wash the tanks with cold water first?

PJSI : Which routine procedures should be carried out before cold work commences?

A : Carry out procedures to instructions for cold work including filling in forms and having them signed.

PJSY : Who shall submit a request for trade certificate for a NIS cargo vessel of less than 500 gross tons?

A : Owner or master

PJTD : When starting cargo compressors they should be:

A : Unloaded.

PJTT : Which of the options given is likely to be the reason for a drop in the charge air manifold pressure of a diesel engine operating with an exhaust gas turbocharger?

A : Exhaust gas boiler fouled.

PJTT : Which of the options given is likely to be the reason for a drop in the charge air pressure supplied to a diesel engine by an exhaust gas turbocharger?

A : Exhaust gas boiler fouled.

PJUX : Who should be informed first when receiving a distress signal from an other ship/vessel?

A : The nearest coastal radio station

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A : - Increase the officers on the bridge to allow greater use of visual navigation

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CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

PKBY : What is the delivery pressure of a centrifugal pump dependent on?

A : The liquid's density and delivery head.

PKFN : What is the maximum filling limit on cargo tanks on gas carriers?

A : Maximum filling limit of cargo tanks on gas carriers is 98% if the liquid temperature is equal to safety valve reference temperature

PKKU : You are going to do deballasting of a double bottom tank. The pump is of centrifugal type and mounted above tank level. You are having problems getting the pump to take suction. What can you do to solve the problem?

A : Feed the pump from the sea water inlet pipe.

PKLO : What is the name of this unit?

A : A hydrostatic release unit

PKMR : During maintenance work on a fuel tank the engine room ratings are removing scale in preparation for re-coating. One of the ratings suddenly notices the smell of fumes even though the atmosphere had been satisfactorily tested before the work started. What action should the ratings take?

A : Leave the tank immediately and have the atmosphere retested.

PKNA : Which of the following items do not necessarily have to be included in an abandon ship drill? (SOLAS III/18.3.4)

A : Starting and operating radio life-saving appliances

PKPS : Why is it important to check the timing of diesel engine cylinder oil lubricators?

A : To get the oil into the cylinder when the piston is in the right position.

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A : To ensure cylinder lubricating oil enters the cylinders when the piston is in the required

PKPS : Why is it important to check the timing on the cylinder oil lubricators?

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PKPS : Why is it important to check the timing on the cylinder oil lubricators?

A : To get the oil into the cylinder when the piston is in the right position.

PKRF : To discharge the last amount of cargo ashore, the stripping pump through the small diameter line is used. Where does this small diameter line come from in the pump room and where is the line ending at the manifold?

A : From the stripping pump's delivery side directly to the manifold's presentation flange.



PKSA : Give the meaning of the following symbol

A : Start air supply

PKSN : Where would you look for definitive information on whether a particular cargo is a "Noxious Liquid Substance"? (Other than products provisionally assessed).

A : The pollution category column of chapters 17 or 18 of the International Bulk Chemical Code (IBC Code).

PKSN : Where would you look for definitive information on whether a particular cargo is classified as a "Noxious Liquid Substance"? (Other than products provisionally assessed).

A : The pollution category column of chapters 17 or 18 of the International Bulk Chemical Code (IBC Code).

PKUQ : The MID
i s :

A : a number which indicates the nationality of the ship

PKUT : Squelch mode serves to suppress:

A : background noise in receiving a weak FM-signal

PLBB : When long-handled pans are in use on the range, how should the handles be positioned?

A : They should be turned inwards, so they are not accidentally caught by people passing by.

PLDW : What is a good way to get help for people with special needs?

A : Find helpers to act as buddies.

PLDX : Why is it necessary to have routine testing of the cooling water?

A : To ensure that the proper residuals of treatment chemicals, as specified, are maintained all time.

PLDX : Why is it necessary to have routine testing of the cooling water?

A : To check that the correct concentration of corrosion inhibitors are maintained.

PLEV : What is the main purpose of a heat exchanger in a cooling water system?

A : Transfer heat from one fluid to another

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CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

PLMY : An inflatable liferaft accommodating 6 persons is fitted with:

A : 1 entrance fitted with a semi-rigid boarding ramp

PLOS : If the Radar scanners of one vessel are in the same horizontal plane as the cargo deck of the other during transfer operations, which type of radar emissions would pose a greater danger of the induced ignition of flammable vapours?

A : a 10 cm radar.

PLOX : Identification of a ship station is amongst others done by an:

A : MMSI-number

PLQE : During inspection of a high pressure fuel pump for a medium speed diesel engine it is observed that the upper leading edge and the lower helical edge of the pump plunger have suffered from erosion damage. Select the correct action to take to remedy this from the options given.

A : Renew the plunger and barrel insert as a pair.

PLRF : Does the nationality of the shipowning company have any importance in general to the application of Norwegian law on NIS ships?

A : No.

PLSN : Which ideal heat engine cycle is the vapour-compression refrigeration system based on?

A : The reversed Carnot cycle.

PLST : Some LNG carriers are equipped with spherical cargo tanks, what type of tanks are they?

A : Normally independent tanks type "B".

PLST : The cargo containment system for some LNG carriers is in the form of spherical tanks. What is the IMO classification for this type of tank?

A : Spherical self-supporting, type "B" tanks.

PLVK : A bulkhead of the "A" class must:

A : Comply with all the requirements listed here

PMBF : What should NOT be given to a patient suffering from diarrhea?

A : Milk

PMCW : What will happen when the ship arrives in Rotterdam?

A : They have to bunker fuel oil and diesel oil



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

PMCX : The correct order of actions to be taken in a fire emergency, should be...

A : Evaluation of the situation, rescue and life-saving, confinement of fire, extinction, then feed back on the emergency

PMCY : Generator 1 and 2 are initially working in parallel. Prime-mover 2 suffers a total fuel loss. The likely outcome is:

A : No.2 generator trips on reverse power

PMFR : Which of the following is a traditional Norwegian Christmas dinner?

A : Salted and dried rack of mutton, mashed swedes, boiled potatoes.

PMOS : The steam that is discharged from the safety valves goes to the

A : atmospheric line

PMVJ : During overhaul of a purifier the engine room rating is instructed to drain and clean the gearbox on the machine. Which of the materials given in the options is the best one for wiping up the remaining oil in the gearbox after draining the oil?

A : Clean, lint free cotton rags.

PMXG : On a RoRo vessel, what is the best method to increase friction between the deck surface and cargo units?

A : Placing soft boards or other anti-skid materials directly under the cargo

PMXG : What will increase friction between the deck surface and cargo units?

A : Placing soft boards or other anti-skid materials directly under the cargo

PMXG : What will increase friction between the deck surface and ro-ro cargo units?

A : Placing soft boards or other anti-skid materials directly under the cargo

PMYF : When setting the tappet clearance (rocker arm clearance) on cylinder cover valves it is important that the engine is turned to the correct position. Select, from the options given, the engine correct position for this procedure.

A : The engine should be positioned so that the cam follower for the valve for which the clearance is being set is on the cam base circle.

PNAE : You are an officer on board a large oil tanker and in charge of the discharging and crude oil washing operation. What is the maximum oxygen content by volume permitted in the cargo tanks throughout the crude oil washing phase of the operation?

A : 8 %

PNAF : What advice would a harbour pilot give the Master?

A : To single up to one line and spring forward



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

PNBY : What do international and national maritime authorities say about passenger list?

A : All personnel onboard (crew and passengers) must be registered to keep a track of number of people onboard.

PNCS : LNG is one of the liquefied gases transported by sea. What is the IMO's definition of liquefied gases?

A : Liquids with a vapour pressure exceeding 2.8 bar absolute at +37.8 C and certain other chemicals listed in the Gas Codes.

PNCS : What is IMO's definition of liquefied gas?

A : Liquids with a vapour pressure exceeding 2.8 bar absolute at +37.8 C and certain other chemicals listed in the Gas Codes.

PNCS : What is the IMO's definition of liquefied gases?

A : All chemicals with excess pressure above 2.8 bar at +37.8 C.

PNJC : A tank which contained a category "X" product must undergo a prewash before leaving port in compliance with MARPOL. The resulting residues shall be discharged to a reception facility until the concentration of the substance in the effluent, as indicated by analysis of samples of the effluent taken by the authorized surveyor reaches a certain level. What is that level?

A : 0.1% by weight.

PNJC : When it is required that a mandatory prewash is to be witnessed, who is to make and sign the applicable entries in the Cargo Record Book?

A : A government-authorized surveyor.

PNOC : What is DRI?

A : Direct Reduced Iron

PNON : How many hand held distress flares are carried in each liferaft?

A : 6

PNOP : What do you understand by: Move the pilot ladder?

A : Move the pilot ladder means: to shift the pilot ladder to a new position

PNOP : What do you understand by the order: "Move the pilot ladder to the other side"?

A : Move the pilot ladder to the other side, means: to shift the pilot ladder to the opposite side of the ship.

PNQT : What is the approximate normal daily cargo "boil off" rate for an LNG carrier of 125000 cubic metre cargo capacity?

A : From 0,15 % to 0,20 % per day of total cargo.



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

PNQT : What is the normal daily "boil off" on a LNG carrier of abt. 125000 cbm.?

A : From 0,18 % to 0,25 % per day of total cargo.

PNSN : A mechanical seal, consisting of carbon and ceramic seal rings, is to be fitted to a centrifugal pump shaft. What is the most likely result of not being extremely careful when fitting this type of seal?

A : The seal rings are brittle and can be easily chipped or damaged

PNUJ : Which one of the listed requirements regarding the stowage of lifeboats and life-rafts corresponds to present SOLAS regulations?

A : Lifeboats shall be stowed attached to launching appliances.

PNWR : If there is an accidental discharge of oil from a tanker, which of these items will NOT have to be noted in the Oil Record Book ?

A : The name of the person responsible for the oil discharge

PNYN : A distress-call received via RCC should:

A : be given no receipt indubitably too distant from the distress-case

POAD : What is the purpose of explosimeters?

A : Measure the amount of explosive gases in % of LEL.

POAH : How can the ship's master prove that a vessel is British?

A : By showing the ship's register

POBB : By what means can we monitor and control the integrity of the hull?

A : Automatic detection systems, television surveillance and patrolling of ro-ro cargo spaces

PODF : On a container vessel, when racking forces are imposed on a container, which part is likely to show the greatest deflection.

A : The door end of the container.

PODI : Notification logging procedures (OPA-90)

A : Every report or message must be logged including time and date

PODJ : What can lead to "Unlimited responsibility" (OPA-90)

A : Wilful misconduct, gross negligence and violation of Federal Safety



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

POEG : On a RoRo vessel, when loading a non standard RoRo cargo what information would you expect to receive from the shipper of the cargo

A : Its size, dimensions, special securing needs, weight and centre of Gravity

POEG : What would be the effect of a large GM on a ro-ro vessel?

A : A stiff ship with a quick roll period

POEH : What is
S E L F E C :

A : a one-sided transmission

POGH : During maintenance work on the main engine a problem arises regarding the lifting of a main component in that the manufacturers instructions do not apply to the engine as fitted and present a hazard. In which of the information/record sources given in the options, is it most important to record the information relating to this anomaly?

A : ISM procedures in the ships safety manual.

POGL : A vessel's aft draught reading is 8.50m with a correction factor of 0.065m; the aft draught marks are painted forward of the after perpendicular. What is the corrected aft draught if the vessel is trimmed by the stern?

A : 8.565m

POJH : What class of fire involves liquids?

A : Class B fire

POLB : You have abandoned ship in a liferaft. Which of the following actions should you take?

A : Organize a lookout system and join up with other survival craft if possible. You should also stream the sea anchor

POLU : When fighting fire, why shall you never pour water into hot fat?

A : The water will explode into steam causing hot fat to be thrown far away thus possibly causing severe burns or fire.

POPC : The Training Manual shall contain instructions and information on the life-saving appliances and the best method of survival. Which of following detailed explanations of crew duties in relation to emergency situations shall be contained therein?

A : The method and use of sea-anchors (drogues)

POPG : You are on night time duty as navigating officer on a ship under way, when a fire in the crews accommodation is reported. What is the first action you would take?

A : Sound the fire alarm signal

PORQ : What is the direction of wind associated with an anticyclone (area of high pressure) in the Northern Hemisphere?

A : Clockwise around the high pressure



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

POSK : What are class "C" bulkheads?

A : Bulkheads constructed of approved non-combustible materials but do not meet any of the requirements relative to smoke and flame nor limitations relative to temperature rise.

POSP : How often shall a survey for renewal of cargo ship safety construction certificate be carried out?

A : Every fifth year with a periodical survey every 12. month.

POUC : The boiler have been shut down completely for inspection and repair. You have finished work and are going to start firing the boiler. What is the correct procedure for heating a boiler from cold?

A : Start with intermittent firing, using small firing periods and long intervals gradually building up to longer firing periods and shorter intervals.

POUF : During pre-entry checks of an enclosed space onboard a liquefied gas carrier it is necessary to check the condition of the atmosphere. If the gas detection equipment to be used for the checks included a catalytic type combustible gas indicator, an absorption type toxic gas detector and a paramagnetic type oxygen analyser, which would be the preferred order for the checks?

A : Oxygen content followed by hydrocarbon gas content and then toxic gas content.

POVA : It is common practice to connect a resistor is connected over an alarm contact (see diagram) in many applications. Why is this connection used?

A : To monitor the cable/wires for break.

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A : To monitor the cable/wires for break.

POVX : Why are you only allowed to load maximum 98% of the tank capacity?

A : Due to temperature expansion

POVX : Why are you only allowed to load maximum 98% of the tank capacity?

A : Due to temperature expansion.

POWT : Give the meaning of the following symbol:

A : lifejacket

POYE : What term is applied to the running of a number of cargo pumps together to discharge a homogeneous cargo from multiple tanks simultaneously up a common discharge line?

A : Parallel pumping.

POYE : What term is applied to the running of a number of cargo pumps together to discharge a homogeneous chemical cargo from multiple tanks simultaneously up a common discharge line?

A : Parallel pumping.



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

PPEW : A cargo pumproom must be mechanically ventilated. What is the minimum number of atmosphere changes per hour that such a system must achieve?

A : 20 changes per hour.

PPEW : A cargo pumproom must be mechanically ventilated. What is the minimum number of atmosphere changes per hour that such a system must deliver?

A : 20 changes per hour.

PPEW : A cargo pumproom or other enclosed space which contains cargo handling equipment on a chemical tanker shall be fitted with a mechanical ventilation system, capable of being controlled from outside the space. What is the minimum number of atmosphere changes per hour, based on the total volume of the space, that such a system must deliver?

A : Not less than 30 changes per hour.

PPEW : A cargo pumproom or other enclosed space which contains cargo handling equipment shall be fitted with a mechanical ventilation system, capable of being controlled from outside the space. What is the minimum number of atmosphere changes per hour, based on the total volume of the space, that such a system must deliver?

A : Not less than 30 changes per hour.

PPHA : Why do we use stabilizers?

A : To decrease the rolling angle of the vessel

PPNJ : In accommodation spaces, where must smoke detectors be located?

A : In stairways, corridors and escape routes

PPNK : Two synthetic fibre lines of the same size and material are run out and pretensioned at the berth. However one line (line A) is secured to a shore bollard twice as far as the other line (line B). If a sudden increase in wind now causes an extra load to come on the lines, the extra load will be shared by the lines as follows:

A : A will take 1/3 of the extra load. B will take 2/3 of the extra load

PPNP : Which one of the listed requirements regarding abandon ship drills do not correspond to present regulations? (SOLAS III/18.3.5 - 18.3.7)

A : on ships on short international voyages, each lifeboat shall be launched and maneuvered in the water at least every six months

PPOI : You have a cylinder liner with 6 outlet holes for cylinder lubrication, how many clogged holes can you accept ?

A : 0

PPTF : What ships does GMDSS apply to?

A : All ships covered by Chapter IV of SOLAS i.e. all cargo ships of 300GRT and above and all passenger ships on International voyages

PPYD : Inmarsat Telex Service code '31' can be used:

A : to ask for 'maritime inquiries



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

PQBN : What method shall be used when hauling survivors out of the sea (state of survivors is critical)?

A : Using nets

PQFE : When Sen. Deck Off. of both vessels involved have decided which will be the last lines to be let go whilst unmooring, these lines should be made fast as follows on the ship accepting the lines.

A : By turning up the rope on the bitts, fig. 1

PQFU : Give the meaning of the following symbol

A : B class fire door self closing

PQIJ : Approaching the shore in a lifeboat you see a person holding a white flag which he moves in a vertical motion. What does this indicate?

A : This is the best place to land

PQIK : How is positive stability maintained when loading heavy lift cargoes?

A : By completely filling the ships double bottom tanks and monitoring the loading operation

PQIK : How is positive stability maintained when loading heavy lift cargoes on a General cargo vessel?

A : By completely filling the ships double bottom tanks and monitoring the loading operation

PQJH : During start up of a steam plant it is necessary to warm through the steam range prior to use. How should this warming through be carried out?

A : Using the bypass/warming through line for the main stop valve and with all line drains open to ensure all condensate is removed.

PQLE : A bulk carrier is about to commence loading steel coils using ships cranes, what three important checks must be made?

A : Crane controls tested, limit switches correctly set and SWL never to be exceeded

PQNK : Which one of the listed requirements regarding rescue boat equipment do not correspond to present regulations? The normal equipment of every rescue boat shall include:

A : immersion suits for the number of persons the boat is permitted to accommodate

PQOV : Give the meaning of the following symbol:

A : lifeboat

PQPC : Describe the process of registering a ship which has just been delivered from the builders

A : Owners submits delivery certificate and proof of eligibility, RSS send Carving note, vessel is "Carved", completed carving note returned to RSS, RSS issue Register



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

PQYF : After a couple of hours of operation the failure alarm sounds for a heavy fuel oil purifier which is operating on a timed automatic sludge cycle. Upon investigation the purifier is found to be running slowly and when opened up the casing and sludge outlet is heavily fouled with sludge in contact with the bowl. From the options given what is the most likely cause of this problem?

A : The heavy fuel is unstable leading to excessive high viscosity sludge formation.

PRBO : Passenger ship engaged in international voyages shall carry through a muster for all passengers. At what latest time after embarkation shall the muster take place?

A : Within 24 hours after the passengers embarked

PRBR : When measuring flow of fluids with a fixed area flow meter, the name of the sensing device is?

A : Orifice plate

PRBT : When making a small repair to the furnace refractory lining it is common to make a patch using castable plastic refractory material. Which is the best method, from those given in the options, of securing the patch to the main refractory lining?

A : Cut away the damaged area to form an undercut right around the edge and fill with the plastic refractory material.

PRDB : A general cargo ship is discharging and smoke is reported coming from a hold which is not being worked at present; what action must be taken ?

A : Sound general alarm, call shore fire services and check number of persons on board

PRDJ : You are planning the discharge of a crude oil tanker with segregated ballast tanks. It is anticipated that when the vessel leaves port, she will encounter bad weather. Which of the cargo tanks should be crude oil washed as a priority?

A : The dedicated heavy weather ballast tank

PRDJ : You are planning the discharge of a crude oil tanker with segregated ballast tanks, SBT. Which of the cargo tanks should be crude oil washed if you are expecting heavy weather?

A : The dedicated heavy weather ballast tank

PRDY : What is the normal name given to the fuel oil used for the ships main engines?

A : The Chief Officer wants the 1st Engineer to empty the starboard bilge in hold No. 5

PREC : Which mineral is essential for building and maintaining bones and teeth?

A : Calcium

PREC : Which mineral is essential for building and maintaining strong bones and teeth?

A : Calcium

PREE : A coast radio station for sea area A2 has:

A : not always radiotelex



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

PREP : When will a 'D' ring not be an effective lashing point?

A : When its retaining collar is torn

PRHG : Which of the following measurements will include a D/P transmitter in the control-loop

A : Pressure

PRIO : Methane and carbon monoxide levels must be measured regularly on voyage when carrying a bulk coal cargo; how is this done?

A : Each hatch coaming must be fitted with an approved sampling port

PRJE : Which of the following duties shall be included in the "muster list" as being assigned to crewmembers in relation to passengers?

A : ensuring that a supply of blankets is taken to the survival craft

PROF : On board they want to make a DSC-call with a foreign coast-station. It is an urgent call. Preferably choose:

A : The national DSC-call frequencies of the coast-station concerned

PRQE : What is related to a high GM?

A : Increasing angles of roll

PRQE : What is the stability characteristics associated with a large GM?

A : Quick rolling period and increasing angles of roll

PRQE : What is the stability characteristics associated with a large GM on a container ship?

A : Quick rolling period and increasing angles of roll

PRQS : What is necessary protection when you are rust chipping with air tools?

A : Protective clothing, safety shoes, gloves, goggles, earmuffs.

PRRL : In which ways is heat transmitted?

A : Conduction, convection and radiation

PRWV : How frequently should the PA-system (Public Address) be tested?

A : Every week



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

PSBF : Once a vessel has discharged a fruit cargo it is important to check that all cargo residues have been removed, particularly if the next cargo is to be a sensitive fruit cargo. From the options given, select the most important reason for this requirement.

A : The cargo residue can produce large amounts of ethylene.

PSER : What will diminish the function of a dovetail fitting?

A : Chamfered or waved edgers

PSER : What will immediately diminish the function of a dovetail fitting?

A : Chamfered or waved edgers

PSEX : Which of the following actions should NOT be attempted on an electrical fire?

A : Water extinguisher.

PSIB : What is understood by carrier frequency:

A : the frequency actually used by transmitter and receiver

PSNB : If the high PPM alarm is actuated on an automatic O.W.S. What should happen?

A : Overboard discharge is stopped.

PSOE : How often shall abandon ship- and fire drills take place onboard ro-ro passenger vessels?

A : Weekly

PSRA : A cable carries a current of 1500A at 440 Volts and has a voltage drop along its length of 45volts. Assuming the cable insulation is good enough to work at High Voltage, what would be the voltage drop when supplying the same amount of power at 6600 Volts.

A : 3 Volts

PSRA : A cable carries a current of 1500A at 660 Volts and has a voltage drop along its length of 30volts. Assuming the cable insulation is good enough to work at High Voltage, what would be the voltage drop when supplying the same amount of power at 6600 Volts.

A : 3 Volts

PSTD : What is the most common method of connecting the manifold of an LNG carrier to the shore terminal pipelines?

A : By permanently fixed metal hard arms.

PSUV : When a fire breaks out in the accomodation, cargo holds or on deck, who is in charge of the fire fighting operations?

A : The Chief Officer



PSXB : Give the meaning of the following symbol

A : Rocket parachute flares

PSYS : The training manual shall contain instructions and information in easily understood terms and illustrated wherever possible. Which of the following objects do not have to be explained in detail in the manual according to present regulations?

A : Use of breathing apparatus

PTBG : How are cargo tanks classified under the IBC Code?

A : Independent gravity tanks / independent pressure tanks / integral gravity tanks.

PTBG : How are chemical tanker cargo tanks classified under the IBC Code?

A : Independent gravity tanks / independent pressure tanks / integral gravity tanks.

PTDV : The transmitting power of the mariphone is adjusted by setting:

A : high/low power

PTJE : You are at anchor and another chemical tanker is alongside to receive several parcels from your vessel. As you are not alongside, or actually in port, do you have to observe any of the usual precautions on deck?

A : Yes, there is no difference to a transfer operation whether it is alongside or with another ship at anchor.

PTEU : What statement is correct with frequency modulation?

A : frequency modulation is often applied in the maritime VHF-range (band)

PTFK : Why are zinc anodes sometimes fitted in the seawater side of heat exchangers?

A : Protect against corrosion

PTFP : During tank washing operations on an oil tanker, it is a requirement that the atmosphere within the tank is maintained with an oxygen content of not more than 8% by volume, but which of the following conditions is also a requirement?

A : That a positive pressure is maintained

PTFS : Why do cargo tanks on a chemical tanker commonly have their own individual pipelines and cargo pumps?

A : To reduce the chances of cross contamination.

PTIX : Which one of the listed requirements regarding the launching and recovery arrangements for survival crafts do not correspond to present regulations?
(S O L A S
I I I / 1 5)

A : Only one type of launching and recovery arrangements shall be used for similar survival crafts onboard the ship



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

PTMM : The wire mesh guards for the fans of refrigerated containers sometimes have coloured ribbons tied to them. Which of the options is the reason for fitting these ribbons?

A : To indicate to the crew that the fan is running as a safety consideration.

PTNV : Which of the following is a INMARSAT C Mobile Earth Station Identification Number (IMN)?

A : 422753810

PTQH : You are going to serve boiled potatoes for dinner at 5:30 pm (17:30). At what time should you have the potatoes ready?

A : 5:20 pm (17:20)

PTQH : You are going to serve boiled potatoes for dinner at 5:30 pm (17:30). What time should you have the potatoes ready?

A : 5:20 pm (17:20)

PTQH : You are going to serve boiled potatoes with the evening meal at 18:00 hours. At what time should you have the potatoes ready?

A : 5:20 pm (17:20)

PTQI : What is a "Search and Rescue Region" (SRR)?

A : An area of defined dimensions within which search and rescue services are provided

PTRD : A class "D" fire involves what type of material?

A : Metals

PTTS : We have a problem with surging in the turbocharger. Which of the following could be the cause?

A : Dirty scavenging air cooler on the air side.

PTUO : Who is responsible for testing and certification of all cargo hoses.

A : Ship's captain

PTWE : In the diagram below we want to verify the resistance of the PT100 sensor fitted with compensation. What is the correct calculation?

A : $R(\text{Pt100}) = R1 - R2$

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A : $R(\text{Pt100}) = R1 - R2$



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

PUBC : Who is responsible for the storage and use of substances injurious to health on board?

A : The shipping company and the master

PUEK : What should be continuously monitored when carrying DRI cargoes?

A : Hydrogen emissions

PUHC : What will You do if the purifier starts to vibrate, or has heavy vibrations?

A : Stop the purifier immediately. Check the bowl for heavy side, deposits, bearings, housing, and the spindle for damage.

PUHT : Which of the following is an artificial sweetener?

A : Saccharin

PUNQ : When preparing cargo cranes for operation on a General Cargo ship using shore personnel, what are three of the most important checks to be made?

A : Check that winches, brakes and emergency stops are working correctly

PUPO : What is correct UTC in this example? Approx. Pos: N49°51 W35°23, zone +2, Local Time 0900.

A : 11 00

PUQJ : When you are taking out provisions for the next day, you notice that the temperature in the meat freezer is only -8° C. How would you react to such a situation?

A : Report it immediately to the chief engineer

PUSR : What shall you do if you see a person falling into the sea?

A : Throw a lifebuoy over board and report to the bridge immediately

PUSR : What shall you do if you see a person falling into the sea?

A : Throw a lifebuoy over board and report to the bridge immediately.

PUUL : Which type of call will be sent by a ship adrift and needing the assistance of a tug ? (The weather is not bad and the ship will be aground 24 hours later)

A : Urgent call

PUYV : What actions should the Officer of the Watch take when the ships steering gear fails?

A : All of the suggested answers



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

PVBH : You are receiving stores, including some cartons of frozen seafood. You spot a watermark around a particular carton. What might this be a sign of?

A : That the produce has been allowed to partially thaw at some stage during trans-shipment

PVGY : When describing Crude Oil Washing on an oil tanker, what name is given to areas within a cargo tank that are not directly impinged, or hit by the stream from tank washing machines?

A : Enables sludge to be discharged directly to shore tanks

PVGY : When describing Crude Oil Washing on an oil tanker, what name is given to areas within a cargo tank that are not directly impinged, or struck, by the stream from tank washing machines?

A : Enables sludge to be discharged directly to shore tanks

PVHA : Give the meaning of the following symbol

A : Manually operated call point

PVIR : You are having a blow-by on the main engine, but due to the circumstances, it is impossible to stop and do a piston overhaul. What is the correct action to take?

A : Reduce speed temporarily and increase cylinder oil consumption.

PVJO : When the temperature of the air increases with height it is known as a "Temperature Inversion" and may influence the performance of some instruments on the ship. What should the bridge Officer of the Watch be prepared to happen?

A : Abnormal ranges of VHF RT and Second Trace Returns on the radar

PVOX : What are the minimum required air changes per hour for Special Category Spaces in cargo ships?

A : 6

PVOX : What are the minimum required air changes per hour for Special Category Spaces in general cargo ships?

A : 6

PVSS : Describe the process to be followed when a seaman is to be disciplined for a lesser misdemeanour under the Disciplinary Code

A : At the first occurrence he would be given an informal warning, if the offence occurs again, this may lead to a formal warning

PVYP : With regard to folding hatch covers in the open position, what will happen when the hydraulic cylinder piston is extended?

A : The hatch cover panels should rack backwards releasing the cleat wedges

PWDD : What is the most common way to control the tank pressure on a LNG tanker?

A : To use the boil-off gas as fuel for the vessel.



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

PWDD : What is the most common way to reduce tank pressure on a LNG tanker?

A : To use the boil-off as fuel.

PWDQ : At which of the pressures shown should the low suction pressure trip operate on a freon compressor?

A : +2 bar

PWEN : Operator connected R/T calls are charged

A : on the basis of a three minute minimum charge with one minute incremental steps

PWGG : What is significant for a fully refrigerated gas carrier?

A : That the MARVS is less than 0,7 bar.

PWGG : What is the maximum design working pressure for an Independent Type A cargo tank as may be used for the cargo containment system of a fully refrigerated LPG/Ammonia carrier?

A : 0.7 bar gauge pressure.

PWGV : Are there any restrictions regarding length, breadth or draft in the Panama Canal?

A : Restrictions regarding length and breadth exists. Draft restrictions vary with seasonal changes.

PWIP : Is it required to have supplementary emergency electric lighting on board ro-ro ships?

A : Yes, all passenger public spaces and alleyways shall be provided with supplementary electric lighting

PWJC : You are about to commence tank-cleaning after discharging a cargo of Olefins. What should happen with "ball" type valves in the pipeline system during cleaning?

A : They should be operated (opened and closed) to ensure all surfaces are flushed and drain plugs should be temporarily removed.

PWKH : The sound level of the telephone in the tele-microphone is adjusted on the panel of i.g. an MF/HF radiotelephony installation with:

A : can not be adjusted, this is set by the manufacturer

PWOI : A distress alert on board may only be transmitted on explicit order of:

A : the captain

PWPD : What is recommended for general cleaning (removing of fingerprints, soot and dirt) and daily cleaning of polished floors?

A : Neutral cleaners.



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

PWSR : When carrying out repair or maintenance tasks involving hot work a hot work permit must be issued. Select the correct option from those given which completes the following statement. The permit for hot work...

A : ..should only cover specific hot work tasks and be valid for a specified time period.

PWUB : The cargo tank pressure reading for a refrigerated cargo of propane is higher than the saturated vapour pressure for the cargo temperature. e.g. an absolute pressure of 1.5 bar at minus 43 degrees C. If the cargo tank had been cleaned before loading the cargo what is the likely cause of this condition?

A : When we have a higher cargo tank pressure than the corresponded in the table, it means that we have inert or nitrogen left in the tank or the cargo itself is not clean

PWVY : Why is absolute units utilised in technical calculations?

A : Because the manometer units change with the atmospheric pressure and all values start at vacuum

PWVQ : On most passenger ferries there is no requirements regarding passenger muster exercises. What is the most effective ways of informing embarking passengers.

A : Information about muster station on boarding card, poster in cabins, safety video running continuous.

PWYO : What is the meaning of "Make Fast"?

A : To secure the rope

PXCO : A vessel's midship draught is 8.50m. What is the corrected midship draught if the vessel is on an even keel? Midship marks are painted 0.05m forward of midships; LBP is 162m.

A : 8.50m

PXDL : What does UEL mean?

A : Upper explosive limit.

PXHP : What are the average total working hours per week that must be exceeded over a period of at most one year on board NIS ships?

A : 56 hors

PXKF : During abandon ship exercise, what life-saving equipment must be demonstrated?

A : Wearing and fastening of lifejackets and associated equipment

PXKU : During sea passage how would one know if gasoline vapours were escaping from vehicles/ro-ro units?

A : By using flammable gas detectors in the vehicle/ro-ro decks

PXKU : During sea passage how would you know if gasoline vapours were escaping from vehicles?

A : By using flammable gas detectors in the vehicle decks



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

PXKU : During sea passage on a RoRo vessel, how would you know if gasoline vapours were escaping from vehicles?

A : By using flammable gas detectors in the vehicle decks

PXNM : Describe the contents of the inside cover of the Official log book

A : Gives reference number as per crew agreement, and name of each crew member on board

PXNO : The heat needed to transform a solid substance at a given temperature into a liquid substance with the same temperature is called, what?

A : Melting heat.

PXQW : When does wind force cause heeling moments on a container ship?

A : When the on-deck containers present a certain profile to the wind direction

PXRM : Which type of material is normally used in the construction of a cargo tank designed for transporting LPG at atmospheric pressure?

A : Carbon-Manganese steel.

PXTG : A person wearing lifejacket shall be able to turn from a face-down to a face up position in not more than:

A : 5 seconds

PXVJ : What do you understand by: Secure the tug?

A : Secure the tug means: to make fast the tug

PXVT : What kind of safety equipment must be worn during anchoring?

A : All of the mentioned equipment.

PXXG : You are to release the towing wire with forerunner. You have 3 men with you to do the work. How do you do it in a safe way?

A : Use the winch. Forerunner and wire stopper to pick up the slack and stop the wire. One man operating each. Make the forerunner fast on the bit, releasing the eye of wire and the stopper, lower the wire easy by forerunner

PXXG : You are to release the towing wire with forerunner. You have 3 men with you to do the work. How would you safely carry this out?

A : Use the winch. Forerunner and wire stopper to pick up the slack and stop the wire. One man operating each. Make the forerunner fast on the bit, releasing the eye of wire and the stopper, lower the wire easy by forerunner

PYHM : Under what load condition would sootblowing of the boiler tubes be most beneficial?

A : When the boiler is firing on high rate.



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

PYHO : The Muster List shall show the duties assigned to members of the crew. Which of the following duties shall be included in the "muster list" according to present regulations?

A : Closing of watertight doors, fire doors, valves, scuppers, sidescuttles, skylights.

PYIH : How many hand held distress flares are carried in each liferaft?

A : 6

PYIK : For a large decrease in the specific gravity of the oil, the gravity disc hole diameter should be:

A : Increased.

PYKD : Are there any circumstances which allow extra hours to be worked

A : To deal with emergencies and safety of the ship

PYKE : Some of the valves in the system are marked ESD. What does this mean?

A : Emergency shut down.

PYLL : A vapour compression refrigeration system is usually fitted with a number of devices to give protection and control of the system. Which of the methods given in the options should be used to test the high pressure cut out during routine maintenance and checking of the system?

A : Gradually shut in the condenser cooling water valve or the condenser refrigerant inlet

PYPA : On ships fitted with davit launched liferafts, how often should onboard training take place, including, when applicable, the inflation and lowering of a liferaft?

A : Every four months

PYPE : All heat burns should be

A : Cooled as quickly as possible with running cold water for at least 10 minutes

PYQN : What is an oxygen analyzer used for?

A : Measure oxygen contents in the atmosphere.

PYQS : Which one of the listed fire-extinguishing medium is to be preferred to fight a fire in an electric installation (for example the main switchboard)?

A : Powder.

PYQV : What is the fog signal for a vessel which is not under command?

A : One prolonged blast followed by two short blasts at intervals of not more than two minutes



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

PYRK : What is the M.T.M. ordered to do?

A : He is to dismantle and clean the lub oil separator

PYRQ : The Reid Vapour Pressure (RVP) test is a simple and commonly used method for measuring which of the following characteristics of an oil cargo?

A : Stripping pump.

PYRQ : The Reid Vapour Pressure (RVP) test is a simple and generally used method for measuring What?

A : Stripping pump.

PYSJ : How much food per person is supplied in a lifeboat?

A : Not less than 10000 kJ

PYTB : Indicate the correct name for the tool on the sketch:

A : Monkey wrench

PYTF : It is very important to follow a maintenance schedule for purifiers. Why?

A : To prevent serious damages on main components.

PYUA : In order to extinguish a fire with a portable extinguisher, we must proceed in the following way:

A : Maintain a safe distance, apply the extinguishing agent to the base of the flames with the wind behind us

PYWM : What type of vessel is this?

A : A vessel engaged in fishing other than trawling not making way through the water

PYYA : When should a crane or derrick sheave be replaced?

A : When wear down in the groove exceeds 20% of the wire rope diameter

QABD : Which one of the listed requirements regarding thermal protective aids do not correspond to present regulations? The thermal protective aids shall:

A : permit the wearer to swim a short distance through the water and board a survival craft

QAFM : On a Container vessel, which of the following statements is in compliance with international regulations?

A : The securing of cargoes must be completed before the ship leaves the berth



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

QAFM : Which of the following statements is in compliance with international regulations?

A : The securing of cargoes must be completed before the ship leaves the berth

QAII : Some main propulsion medium speed engine installations operate with a hydraulic oil type fluid coupling between the engine and the reduction gearbox instead of a mechanical clutch. With this type of installation a separate flexible coupling is not normally fitted. Why is a separate flexible coupling usually omitted from this type of installation?

A : The hydraulic fluid in the coupling isolates the gearbox from the engine vibrations.

QAIR : What precautions should be taken with Ro-Ro cargoes when crossing the oceans in winter?

A : All of the alternatives

QAJN : Why are zinc anodes sometimes fitted to heat exchangers in seawater cooling systems?

A : To prevent corrosion of the metals used in the system

QAJN : Why are zinc anodes sometimes fitted to heat exchangers in seawater cooling systems?

A : Cast steel, Iron, Brass & Bronze.

QAKI : What is the minimum number of fire control plans that should be permanently stored in a prominently marked weathertight enclosure outside the deckhouse for the assistance of shore side fire fighting personnel?

A : At least one

QALV : To accommodate expansion of piping on the deck of a chemical tanker the following are fitted:

A : Natural bends at intervals?

QAMT : What are the Chief Mates orders?

A : He wants the anchor secured thoroughly

QANX : What are typical accuracies for LNG measurement with regard to temperature?

A : +/- 0.2 C in the range of - 150 C / - 170 C

QANX : What is the typical accuracy for onboard LNG temperature measurement systems?

A : +/- 0.2 C in the range of - 150 C / - 170 C

QAQOY : What is the punishment for a master or any other person in authority on board a ship if he or she treats a person carried on the ship in an improper manner or fails to prevent his being so treated by other persons onboard?

A : Shall be liable to fines or imprisonment for a term not exceeding 6 months.



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

QAPI : You are carrying out a search in a smoke filled room, wearing a breathing apparatus. How would you conduct this search?

A : Carry out a right or left hand search and proceed carefully, feeling the area in front with the foot and using the back of the free hand to check the area around.

QAUC : What is the first thing you would check when taking over a boiler watch

A : the water level

QAXC : Due to the very low carriage temperatures for LNG the thermal conductivity, k value, is an important property of the insulation material used in cargo containment systems. For a given rate of heat leakage across the insulation, which of the following statements is true?

A : The higher the k value the thicker the insulation needs to be.

QAXC : The thermal conductance capability is expressed by a materials thermal conductance number and states the heat quantity. What is the denomination for heat quantity?

A : Watt

QBAJ : Clay slurry, coal slurry, dextrose solution and molasses. In which MARPOL product category are these substances classified under the revision that came into effect on 1st January 2007?

A : OS (Other substances)

QBDI : What is the minimum number of portable fire extinguishers that must be carried on ships of 1000 GRT and above?

A : 5

QBEJ : When no RU (Rescue Unit), but a number of merchant vessels are participating in a search and rescue operation, one of the vessels should be designated as CSS (Co-ordinator Surface Search), Which practice should be followed in designation of the CSS? CSS to be appointed by:

A : Mutual agreement between participating vessels

QBEL : What is the maximum floor area that one heat detector can cover?

A : 37 m²

QBFB : The periodic system is built on the principle that the electrons in the outer shell determine the chemical properties of a material. What is the maximum number of electrons in the outer shell?

A : 8

QBFB : When would the cargo tanks of an LNG carrier normally be inerted?

A : Before gas freeing for maintenance and inspection and after completion of the maintenance and inspection.

QBGU : During cargo and/or bunkering-operations you have all scuppers closed. It starts raining and there is a slight oilsheen on the water on deck. What to do?

A : Drain the water into the sloptank



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

QBHO : What is the disadvantage of using chemicals on an oil-spill on the water?

A : The chemicals make it difficult to remove the oil from the water

QBIM : What would be the stopping distance of a VLCC when proceeding at 8 knots in deep water and the engines are put Full Astern?

A : I can find out from sea trials or test on my own

QBLY : Which statement about stress is correct?

A : Individuals in a shipboard emergency experience different levels of stress.

QB TJ : Check the items that can be a possible threat

A : All alternatives

QBVS : What should a complete set of safety equipment at least consist of (required by IBC/BCH in addition to Solas) ?

A : One self-contained air breathing apparatus (Not using stored oxygen), protective clothing, boots, gloves and tight-fitting goggles, fire and chemical resistance lifeline and explosion-proof lamp.

QBVV : What is the engine cadet ordered to do?

A : He is supposed to paint the evaporator and use a brush to apply the paint

QBXH : With regard to the characteristics of a mafi trailer what must be ensured prior to unfastening this unit on board a ro-ro vessel?

A : That after unfastening it will not move

QCCO : This is a standard item of equipment on an oil tanker, but what does the abbreviation "ODME" stand for?

A : Oil Detection Monitoring Equipment.

QCDH : This circuit consists of a current source I, a change-over switch S, a resistor R and an inductor L. The voltage/time figures 1 to 4 show possible changes through L if the switch S is suddenly shifted from position 1 to 2 at time $t = 0$. Only one of the diagrams is correct. Which?

A : Figure 3

QCET : Where should a mid-bay guide be positioned?

A : On the tank top between two 20' container bays

QCHU : What are the dangers associated with operating a heavy lift derrick close to the horizontal on a General Cargo vessel?

A : Because there is danger of excessive stresses acting on parts of the derrick system



QCNI : Vessels communicating with each other by mariphone, work:

A : always simplex

QCQP : During COW what actions are required if delivered inert gas exceeds 8 percent oxygen by volume?

A : Stop operation?

QCXG : What governs the disposal of dry bulk cargo residues at sea?

A : MARPOL Annex V

QDBP : How often should cargo hoisting equipment be thoroughly examined?

A : Every 5th year?

QDFE : In the circuit diagram shown the starter connects between which terminals?

A : 5 and 6

QDFT : Give the meaning of the following symbol:

A : liferaft

QDGL : The Satellite orbit in the Cospas-Sarsat system is:

A : polar

QDID : How much liferaft capacity should be provided on a conventional cargo ship of more than 85 meters in length ?

A : 100% of the complement if it can be readily launched on either side of the ship. If it cannot be readily launched on either side, 100% must be provided on each side

QDID : How much liferaft capacity should be provided on a conventional cargo ship of more than 85 meters in length.

A : 100% of the complement if it can be readily launched on either side of the ship. If it cannot be readily launched on either side, 100% must be provided on each side

QDJW : What temperature do we calculate on when using the ASTM-IP tables?

A : We calculate the liquid weight at +15 C.

QDND : According to guidance provided by the OCIMF, what is the requirement for bolting/securing blind flanges on the cargo manifold during cargo operation?

A : All bolts to be in position and tightened?



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

QDND : According to guidance provided by the OCIMF, what is the requirement for bolting/securing blind flanges on the manifolds during cargo operations on an oil tanker?

A : All bolts to be in position and tightened?

QDRM : Which of the following statements concerning an accidental oil spill in US waters is true?

A : The person in charge must report the spill to the US Coast Guard

QDSH : While transmitting with an MF/HF transceiver the transmitting power is suddenly decreasing. The cause may be:

A : the transmitting antenna has broken down

QDUC : How should the painter of a liferaft which is fitted with a hydrostatic release be secured to the ship?

A : Secured via a weak link to a secure part of the ship

QDUW : What is the purpose of the corrugations on the plates?

A : Stiffening of the thin metal sheet.

QDXJ : What is the AB to
d o ?

A : He is to help the other crew members and fetch more Vaseline from the storage room if they run short

QDYL : What is known as a "Non-Standardized Cargo" on a General Cargo Ship?

A : Cargo which requires individual stowage and securing arrangements

QDYL : What is 'Non-Standardized Cargo'?

A : Cargo which requires individual stowage and securing arrangements

QEAB : To get priority with radio-communication, one must notify the coast-station that the call is:

A : an urgent call

QEAU : The exhaust gas temperature is too high in all cylinders because of:

A : Clogged exhaust gas system.

QEID : How often must a crew member participate in a fire drill?

A : Once every month



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

QEMG : When you notice oil on the water near your vessel during bunkering, you should first?

A : Stop bunkering

QEMI : What is the purpose of the "small diameter line" on a crude oil tanker?

A : Make it possible to drain to shore the remaining cargo in the ship's lines and pumps, after the discharging is completed

QEOX : On a General Cargo vessel, what action should be taken when the discharge equipment such as chain slings to be used by stevedores, are considered unsuitable by ships staff?

A : Inform stevedores of concern and protest by letter

QEQO : Before a solid bulk cargo is loaded the Master and shore representative must agree a loading plan

A : All of the items specified in the possible answers

QEQO : Before a solid bulk cargo is loaded the Master and shore representative must agree a loading plan which covers which of the following aspects?

A : All of the items specified in the possible answers

QEQO : Before a solid bulk cargo is loaded, the Master and shore representative must agree a loading plan which covers which of the following aspects?

A : All of the items specified in the possible answers

QEQO : What height of water above the inner bottom will activate a cargo hold low level alarm?

A : 0.2m

QERF : When we are measuring level of liquids with a conductivity level indicator, measurement is performed by?:

A : Electrodes

QERF : When we are measuring level of liquids with a conductivity level indicator, the name of the sensing device is:

A : Electrodes

QERG : During UMS rounds at night during a sea passage, and the duty engineer discovers the main engine lube oil pump starter "chattering" loudly. Should he:

A : Switch over to the other pump and inform the CE of the noise immediately. Keep engine

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CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

QERG : During UMS rounds at night during a sea passage the duty engineer discovers the main engine lube oil pump starter "chattering" loudly. What is the correct action to be taken?

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QERL : Where is "AFT", in the figure?

A : Aft is A, in the figure

QESD : Which item among those below is included in the normal equipment of every liferaft ?

A : one waterproof electric torch suitable for Morse signalling

QFAP : If you are looking for passengers who may be trapped or hiding, what is the best command to shout?

A : Is anyone here? Call out if you need my help.

QFAW : What is normally seen as the greatest risk when operating a high pressure, water tube, steam boiler with an excessively high level of Total Dissolved Solids?

A : Foaming and carryover of water into the steam range.

QFBP : Where on board can you find the different types of protection equipment, the placement, how much equipment etc?

A : The ship's safety plan.

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A : The ship's safety plan.

QFHG : Which organs absorb oxygen and part with carbon dioxide?

A : The respiratory organs.

QFJV : Give the meaning of the following symbol

A : Start engine

QFNX : What is minimum equipment needed for entering a tank or void space that is not gas free or does not contain sufficient oxygen?

A : Self contained breathing apparatus in addition to normal safety equipment.



QFPK : The frequency 121,5 MHz is used for :

A : SARSAT-COSPAS EPIRBs

QFRB : The International Organisation which has established the frequencies to be used in the GMDSS is:

A : ITU

QFRG : Secrecy in maritime radio traffic means that:

A : received messages which aren't intended for own ship are not used

QFTE : What is the purpose of a cargo vaporiser as fitted to LNG carries?

A : To produce the vapour to displace the inert gas from cargo tanks prior to cooling down and loading and for maintaining the pressure in the cargo tank during discharge.

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QFTE : What is the purpose of LNG vaporizer?

A : To provide gas when displacing inert gas from cargo tanks with LNG vapour and for maintaining the pressure in the tank.

QFUQ : What is the maximum time allowed for closing all watertight doors according to SOLAS

A : 1 minute

QGBC : A burn may occur when electricity of high current and voltage passes through the body. Most damage occurs at the points of entry and exit of electricity. What is the treatment of electrical burns?

A : Place sterile dressing over the burn and secure with a bandage.

QGDC : Who will verify the computational results and actual ship data used by the calculation program on a vessels stability computer?

A : - The Classification Society.

QGDP : The vast majority of electrical instrumentation and testing equipment used onboard liquefied gas carriers is classes as intrinsically safe. What is the IMO Gas Codes definition of intrinsically safe equipment?

A : Equipment which is incapable of releasing sufficient energy, during use or in specified fault condition, to cause ignition of a hazardous atmosphere.

QGEN : For what period of time is the protection and environment committee elected?

A : 1 - 2 years.



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

QGER : According to the Oil Pollution Act of 1990 (OPA-90), oil carrying vessels trading in U.S. waters are required to carry oil spill clean up equipment for the containment and removal of on-deck spills. For a vessel of over 400 feet (121.9 metres) in length, what volume of oil must they be able to handle?

A : Departure and arrival ballast tanks plus 25% of remaining cargo tanks for sludge control.

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A : Departure and arrival ballast tanks plus 25% of remaining cargo tanks for sludge control.

QGEW : Vessel A wishes to overtake vessel B as shown in a narrow channel or fairway. What sound signal should A make to indicate that he wishes to overtake B on his starboard side?

A : Two prolonged blasts followed by one short blast

QGHC : What will the stopping distance of your ship be when proceeding with 5 knots and reversing to full astern?

A : The sea-trial tests may tell me, or else I can do a test myself to find out

QGIV : Which of the following is a combustion reaction?

A : All the answers are good

QGPJ : Which cargo lines must have relief valves?

A : All pipelines or components which may be isolated in a liquid-full condition should be provided with relief valve

QGPL : There are a number of liquefied gases transported by sea. What is the most common component of these liquefied gases?

A : Liquefied gases is mostly a mixture of hydro carbons

QGPP : Where is it compulsory to place a portable extinguisher in an engine room containing an internal combustion machinery?

A : In such locations that no point in the engine room is more than 10 m walking distance from an extinguisher

QGSA : Which one of the listed requirements regarding line throwing appliances do not correspond to present regulations? Every line throwing appliance shall:

A : have a sufficient length of non-combustible line behind the rocket

QGTO : Which one of the following items has to be included in an abandon ship drill?

A : instruction in the use of radio life-saving appliances

QGTQ : To supervise the pressure conditions in the cargo tanks, a special device is fitted for this purpose. What is it called?

A : Pressure/vacuum valve.



QGUN : The Declaration of Security:

A : Addresses the security requirements shared between ships or between a port facility and a ship.

QGVL : Why is it not possible to wash all crockery and glassware in a dishwasher?

A : Because not all crockery and glassware is dishwasher proof.

QGXX : Do you think increased temperature of the mixture would improve the separation of oil and water?

A : Yes

QHAD : Which one of the listed requirements regarding launching appliances for survival crafts and rescue boats do not correspond to present regulations?

A : All launching appliances shall be capable of recovering survival crafts and rescue boats with their crew

QHAG : Is it required to have supplementary emergency lighting on board passenger ships?

A : Yes, all passenger public spaces and alleyways shall be provided with supplementary electric lighting

QHEK : Which word will precede a safety message ?

A : SECURITE

QHEM : A small electric motor needs to be taken to the bottom plates for fitting to a domestic water pump. It is only just too heavy to be manually carried so is to be lowered using the engine room crane. Which of the options given would be a suitable strop to use for the operation?

A : Any certified strop which has a safe working load greater than the weight of the motor.

QH HU : Which item among those below is included in the normal equipment of every lifeboat ?

A : watertight receptacles containing 3l of fresh water for each person (may be partially replaced by a desalting apparatus)

QHJP : A refrigerated container is loaded onto the deck of a conventional reefer vessel and landed on flat dunnage. Select, from the options given, the most appropriate and quickest method of securing the container onto the deck.

A : Patented chain and tension bars.

QHKJ : The breaking strength of the painter in a liferaft permitted to accommodate 6 persons is at least:

A : 7,5 kN

QH QI : A consequence of operating a centrifugal pump with the discharge valve closed would be:

A : Pump will overheat



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

QHQI : A consequence of operating a centrifugal pump with the discharge valve closed would be:

A : The pump will eventually overheat.

QHRY : Where is the best position of the oil/water interface in this figures?

A : Position A

QHUG : In an OBO, if part liquid is present in any hold (say 60% by volume) this will give rise to "sloshing" which is the movement of liquid when the vessel is rolling or pitching. Sloshing can cause:

A : All the mentioned alternatives.

QHYY : Do we need insulation on cargo tanks on semi-refrigerated gas carriers?

A : Yes, to avoid cold cargo getting in contact with ship construction.

QHYY : What type of cargo tanks are normally used for the cargo containment system for fully pressurised and semi-pressurised liquefied gas carriers?

A : Independent Type C.

QHYY : What type of vessels are these?

A : Two vessels engaged in pair trawling

QHYY : Indicate the correct name for the part marked on the sketch:

A : Crankshaft

QIAE : An OBO or O/O vessel is carrying dry cargo, but has been constrained to retain her slops in the slop tanks under an inert gas blanket. On the inert gas line common to the cargo holds and slop tanks we should:

A : Insert a blank flange on the line between the slop tanks and the rest of the cargo compartments?

QIDS : What is a Marine Evacuation System?

A : Evacuation Chute(s)/Slide(s) and Liferafts

QIEO : Shortly after entering the cargo hold of a General Cargo ship to discharge logs, two dockers are seen to collapse; what is the immediate action to be taken by the OOW ?

A : Sound general alarm, call emergency services ashore and prepare rescue team with self-contained breathing apparatus

QIFA : Which laws are applicable to NIS vessels?

A : Norwegian laws unless explicitly otherwise provided in or pursuant to a statute



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

QIGW : In a distress situation how many times, or for how long is the emergency alarm signal to be sounded ?

A : until it is manually turned off or is temporary interrupted by a message on the public address system

QIJL : Why should one not rely wholly on a loading computer?

A : Because some instruments do not warn of heavy-over-light containers so long as overall stack weights are within limits

QIKV : Many medium and high speed marine diesel engines have connecting rods with an obliquely (angled) split in way of the bottom end which may have serrated faces. What is the main reason that the connecting rods are manufactured with this oblique split?

A : It allows the bottom end bearing to be large but still allows the piston to be withdrawn from the top of the cylinder.

QIKY : Electric ozone generators are sometimes used to remove residual odours from refrigerated cargo spaces. Which of the options given is the additional action required to ensure the operation is successful?

A : The source of the odour must be located and removed.

QIOL : Other than the Code of Safe Working Practices for Merchant Seamen (COSWP), where else can information be gained regarding guidance and instructions on safety matters?

A : MGN's

QIQG : A lifejacket should be provided with:

A : A whistle and a light

QIST : A general cargo is loaded in Brazil on a General Cargo Vessel bound for Europe in winter time; what are the ventilation requirements in the cargo spaces?

A : Ventilation would normally be required as the vessel is moving from warm to colder areas

QIVI : What kind of starting system shall the lifeboat engine be fitted with ?

A : either a manual system or a power starting system with two independent rechargeable energy sources

QIXQ : What is the purpose of girders in the tank?

A : They support the stiffeners and also take up some of the sea forces

QIXR : As a general rule, where would you expect to find a portable fire extinguisher intended for use in a given space?

A : Near the entrance to that space

QJGJ : The lights displayed here indicate that this is one of two types of vessel. What are the two options?

A : A power-driven vessel engaged in towing, less than 50 metres in length, length of tow under 200 metres, towing vessel and tow restricted in their ability to manoeuvre, seen head-on OR a power-



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

QJGW : Explain the difference between absolute pressure and manometer pressure.

A : Absolute pressure is atmospheric pressure added with manometer pressure, to be used in technical tables

QJLX : The "small diameter line" on a crude oil carrier goes from the pump room to

A : The shore-side of the cargo manifold valves, port and starboard side

QJMW : Small oil spills on deck can be kept from going overboard by doing what?

A : Plugging the scuppers

QJNP : You are the Sen.Off.Deck of a vessel involved in a collision. All necessary actions to ensure safety of crew and vessel has been taken. What shall you then tell the Sen.Off.Deck on the other vessel?

A : Name and Port of registry of your vessel.

QJOF : Give the meaning of the following symbol

A : Radar transponder

QJOH : What do you understand by the term Traversing?

A : Making the complete crane move port and starboard.

QJTG : When ordering cornflakes, which unit of measurement would you use?

A : Packages of 500 g each

QJTM : Where shall you be able to activate the ship security alert system on board ro-ro passenger ships?

A : From the navigation bridge and in at least one other location

QJVI : Which of the following statements is true with respect to the Great Lakes area?

A : The discharge of cargo sweepings is prohibited

QJXT : Hydrogen sulphide is a component associated with crude oil cargoes. At which of the following concentrations will dizziness, headache, nausea, etc occur within 15 minutes, followed by loss of consciousness and possibly death, after 30-60 minutes exposure?

A : 500-700 ppm.

QKBV : By what formula is the displacement calculated? $W = \text{Displacement}; L = \text{length}; B = \text{Breadth}; D = \text{depth of vessel}; C_b = \text{Block Coefficient}; C_w = \text{Coefficient of waterplane}; RD = \text{relative density};$

A : $W = L \times B \times d \times RD$



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

QKCI : Many liquefied gas carriers are fitted with inert gas generators to supply inert gas to ensure the atmospheres of various onboard spaces are non-flammable. How is cargo vapour from these spaces prevented from back-flowing into the inert gas generator and creating an explosion risk?

A : There are at least two mechanical non-return devices fitted to the deck IG main.

QKCU : What initial simple recommendation can we give to reduce oxygen in the boiler water?

A : Raise the feed water temperature.

QKGW : You are the Duty officer on vessel "A" in US Fairway waters. According to your radar observation you will pass tug "B" and at the same time you will be in a close situation with vessel "D". How will you safe the situation?

A : By reducing your speed until vessel "D" is cleared

QKGW : You are the Duty officer on vessel "A" in US Fairway waters. According to your radar observation you will pass tug "B" at which time you will be close to vessel "D". How will you make this situation safe?

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A : By reducing your speed until vessel "D" is cleared

QKHP : Where on a ship is the deck known as the "Boat Deck"?

A : The deck for the lifeboats.

QKHR : The timing of the ignition in a 4 stroke diesel engine depends on:

A : the adjustment of the cam/camshaft of the engine.

QKLO : Which of the options given is the most likely reason for a drop in pressure at the charge air manifold of a diesel engine?

A : Air filter to turbocharger fouled or damaged.

QKLW : The correct functioning of a DSC-modem can be checked by means of:

A : the build-in test facilities in the modem

QKMA : Which statement about the garbage record book is true?

A : It is used to record all operational and accidental garbage discharges

QKMN : Give the meaning of the following symbol

A : Start engine



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

QKPB : What is the purpose of Material Safety Data Sheets?

A : To provide all personnel including emergency personnel with procedures for handling or working with that substance in a safe manner

QKPT : A steel spear thermometer is to be used to check the pulp temperatures of a cargo of chilled beef which is vacuum wrapped in plastic and packed in cardboard cartons. Which of the given options is the most appropriate method of using the thermometer to get the pulp temperatures of this high value commodity?

A : Remove the lid of the carton and place the thermometer so that it is completely covered between two of the plastic wrapped pieces of beef.

QKRA : How should drums be stowed, in compliance with the IMDG Code?

A : Upright

QKRA : How should drums be stowed on a General Cargo vessel, in compliance with the IMDG Code?

A : Upright

QKRO : During a Safety equipment annual survey, the emergency fire pump is found to be inoperative, what actions would the surveyor take?

A : He would inform master that ship was unseaworthy, and that the emergency fire pump must be rectified before the ship can sail or the Safety Equipment certificate can be endorsed

QKSH : What paint coating should be used in a cargo hold of a bulk carrier, when the hold may be used for the carriage of grains?

A : Approved for use in cargo spaces that may carry edible cargoes

QKVR : Give the meaning of this symbol:

A : lifebuoy with line

QKWY : Under SOLAS, what are the minimum required air changes per hour for 'Special Category Spaces'?

A : 10

QKWY : Under SOLAS, what are the minimum required air changes per hour for Special Category Spaces on a RoRo vessel,?

A : 10

QLEJ : On a Container vessel, when preparing to lift hatch pontoons why is it necessary to secure all loose material on it?

A : So that pontoons are not fouled by loose material whilst being lifted

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A : So that pontoons are not fouled by loose material whilst being lifted



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

QLFS : What corrections must be applied to the echo sounder reading to compare the depth of water with the depth printed on the chart?

A : Regulations of the light on the PPI.

QLGR : The auxiliary boiler for the supply of low pressure heating steam has an automatic combustion control which operates on a two step control principle. The boiler fails to attempt to start up during a period of normal operation even though the steam pressure has fallen below the set point. What is the most likely cause of this fault?

A : The pressure switch for low steam pressure is faulty and fails to close.

QLHH : Which of the following types of fire extinguishers must be found in an engine room containing an internal combustion engine ?

A : All of these mentioned must be provided

QLKA : Some 4-stroke engines are equipped with cooled fuel valves. Why is it so important to keep the coolants temperature correct?

A : For cooling and to maintain correct viscosity on the fuel when injected.

QLMC : On a Container vessel, why must duty crew members supervise the lashing of containers?

A : Because stevedores often apply container lashings haphazardly or place twistlocks incorrectly

QLMC : Why must duty crew members supervise the lashing of containers?

A : Because stevedores often apply container lashings haphazardly or place twistlocks incorrectly

QLMO : Where in the book "Excerpts from The Norwegian Passenger and Cargo Ship Legislation, etc." is it stated that the form "Marine casualty report" is to be used in connection to a request for maritime inquiry?

A : In the main section VI, letter F.

QLMO : Where in the book "Excerpts from the Norwegian Ship Control Legislation" is it stated that the form "Marine casualty report" is to be used in connection to a request for maritime inquiry?

A : In the main section VI, letter F.

QLQM : When talking about the properties of an oil cargo, what does "flammable" mean?

A : That it is capable of being ignited and of burning.

QLRK : The call sign of a vessel is meant to:

A : be able to identify oneself

QLTD : Which of following items shall be included in an abandon ship drill?

A : operation of davits used for launching liferafts



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

QLYC : What must be done before dock workers and stevedores are allowed on board a General Cargo vessel?

A : Identification and passes must checked and number of persons on board recorded

QMBL : What will you serve seafarers who has been exposed to cold?

A : Warm nutritious drinks.

QMBN : What does the Chief Mate want to have done?

A : He wants all the lashings tightened and two extra chains fastened to each container

QMBT : A Decca chain consist of:

A : 1 masterstation and 3 slavestations.

QMBT : A Decca chain consists of:

A : 1 masterstation and 3 slavestations.

QMDE : Who decides the number of lashings you should put on a trailer?

A : The loading officer

QMEE : On a Container vessel, what would you do if you saw a stevedore starting to lash a container whilst other containers were being stowed above it?

A : Tell him to wait until overhead containers have been stowed

QMEE : What would you do if you saw a stevedore starting to lash a container whilst other containers were being stowed above it?

A : Tell him to wait until overhead containers have been stowed

QMFV : In most ports, tankers are required to discharge in enclosed atmosphere. What is the required capacity of the I.G. Blowers in relation to cargo pumps ?

A : 125 pct?

QMKY : Whilst unmooring after a ship to ship transfer operation, experience shows that, for the manoeuvring vessel, casting off the forward moorings first and letting the bow swing out before casting off the final after moorings, and then steaming away is a satisfactory procedure. It is recommended however that the angle of disengagement when steaming away should initially be kept at:

A : 5 °

QMND : The buoyancy forces upwards act at what part of the hull?

A : All over the underwater volume.



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

QMSC : What is a Combination Carrier?

A : A ship designed to carry either oil or solid bulk cargoes

QMSC : What is understood by the term "a Combination Carrier"?

A : A ship designed to carry either oil or solid bulk cargoes

QMST : After discharging a high density cargo a serious crack is found in an upper ballast tank amidships of a Bulk Carrier; what must the Master do?

A : Inform Designated Person Ashore (DPA) and call in Classification Society

QMWE : Which one of the listed requirements regarding "week links" for float free arrangements for liferafts do not correspond to present regulations? Week links shall:

A : release the liferaft at a depth of not more than 4 metres

QMWG : To what purpose is safety meetings held prior to surveys?

A : To check out if the rules of ISGOTT Chapter 10 is followed.

QMXA : What is the Chief Officer worried about?

A : He is worried that oil will run through the outlets and into the sea

QMYB : On a Container vessel, where will you find the Dangerous Goods List?

A : In Part 3 of the IMDG Code Volume 2

QMYB : Where will you find the Dangerous Goods List?

A : In chapter 3.2 of the IMDG Code volume 2

QMYC : In which way shall a survivor be hauled out of the sea?

A : Horizontal

QMYE : Where would you look for a summary of important safety and handling information on a cargo loaded on your ship?

A : The Material Safety Data Sheet

QMYT : Which one of the listed requirements regarding line throwing appliances do not correspond to present regulations? Every line throwing appliance shall:

A : have a sufficient length of non-combustible line behind the rocket



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

QNB Y : What can be the punishment for a subordinate who unlawfully brings intoxicating beverages on board?

A : He shall be liable to fines or in especially aggravating circumstances to imprisonment for a term not exceeding three months.

QNGM : Too low exhaust temperature in one cylinder becomes because of:

A : Injection valve opening pressure is too high.

QNSS : An inspection in the amidships area of the weather deck of a Panamax container vessel has revealed cracks in the hatch coamings. Which part of the vessel should now urgently be inspected.

A : Longitudinals in the double bottom tanks in the amidships half length of the vessel.

QNVJ : When at sea, you discover that the bilges in the engine room have a large quantity of oil residues floating around. What action should you take?

A : Notify Chief Engineer, find cause of leakage, remedy the leakage and then immediately start to clean the bilges

QNVK : How should gas bottles be stored?

A : In two separate rooms outside the engine room space.

QNV P : How many thermal protective aids are carried in each liferaft?

A : 10% of the number of persons the liferaft is designed to carry, or two, whichever is the greatest

QNX Y : The emergency battery of a GMDSS portophone:

A : must be replaced when the seal is broken

QOAS : What is this?

A : A hydrostatic release unit

QOCD : How often should each lifeboat be lowered into the water and manoeuvred with its operating crew aboard under SOLAS regulations?

A : At least every three months

QOCF : The ID of an Inmarsat B station on board starts with:

A : 3

QONU : Injuries resulting from slips and falls constitute the largest percentage of accidents that occur in the catering department. What shall be done to reduce this high accident rate?

A : Keep the floors and decks free from fat and grease.



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

QONU : Injuries resulting from slips and falls constitute the largest percentage of accidents that occur in the catering department. What should be done to reduce this high accident rate?

A : Keep the floors and decks free from fat and grease.

QORA : What is the minimum oil level on the drawing?

A : A

QOSA : You have observed a small leak of oil at the manifold during discharging. What is your first action?

A : Call immediately the person in charge.

QOSC : The ODME is recording the operation data on a paper roll. How long must the ship file these paper rolls?

A : 3 years.

QOTU : You are lowering the bilge retention tank level overboard via the O.W.S. and you reach the oil/water interface. Would you:

A : Pump the oil to the incinerator tank.

QOTU : You are lowering the bilge retention tank level overboard via the O.W.S. and you reach the oil/water interface. Would you:

A : Stop the OWS and pump the oil to the incinerator tank.

QOTX : Which is the most important factor in the safety awareness of the ships crew?

A : The level of emergency-preparedness

QOUP : Who is the responsible person for the safety of the ship and all those onboard?

A : The Master

QPBC : What is the purpose of a deck seal?

A : To avoid backflow of gas to the engine?

QPIQ : Which approved publication should be used by a seafarer to help overcome any misunderstanding in communications?

A : Standard Marine Navigational Vocabulary.

QPJL : The electric motor on one of your centrifugal pumps has for a period of time gradually been running at lower and lower Amp-load. The pump is still supplying water, but the pressure is reduced. Which of the below alternatives is probably the reason?

A : Inner diameter of impeller is bigger due to cavitations, or outer diameter reduced by erosion.



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

QPJL : The electric motor on one of your centrifugal pumps has for a period of time gradually been running at lower and lower Amp-load. The pump is still supplying water, but the pressure is reduced. Which of the below alternatives is probably the reason?

A : The pump impeller and wear rings have worn

QPKF : What will you serve seafarers who have been exposed to heat?

A : Cold drinks and salt.

QPMI : Personnel on board ro-ro passenger vessels must undergo training courses before they can be part of the safe manning and assigned to emergency duties on board. What is minimum training requirement for all personnel?

A : Basic Safety Training Course and Crowd & Crisis Management Training Course

QPMT : This circuit consists of a current source I, a change-over switch S, a resistor R and a capacitor C. The current/time figures 1 to 4 show possible changes in the current I in case the switch S is suddenly shifted from position 1 to 2 at time $t=0$. Only one of the diagrams is correct. Which?

A : Figure C

QPMT : This circuit consists of a current source I, a change-over switch S, a resistor R and a capacitor C. The current/time figures 1 to 4 show possible changes in the current I when the switch S is suddenly shifted from position 1 to 2 at time $t=0$. Only one of the diagrams is correct. Which?

A : Figure C

QPMY : If conditions permit, which is the best way to board a liferaft which is floating close to the ship?

A : Use a rope ladder close to the raft to climb down and board

QPOO : You are in a position as illustrated. What is the instantaneous oil discharge limit according to MARPOL ?

A : 30 L/nm

QPPH : Which special regulations cover transportation of grain?

A : IMO Grain Rules?

QPPH : Which special regulations cover transportation of grain on a Bulk Carrier?

A : IMO Grain Rules?

QPPI : Transmission lines play a central role in radio frequency circuits, where they are used to pipe signals around from one place to another within a circuit, and often to an antenna system. General rules for such transmission line is that they must be "matched". Which of the cables below would you use to obtain a matched transmission between Z1 and Z2?

A : Figure 4

QPYR : What is the minimum working pressure of the international shore connection?

A : 1 N/mm²



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

QQBE : Watch keeping engineers shall have a minimum of knowledge of the vessels engine room and operation of its functions prior to being accepted as Engineer on Duty, and shall acknowledge his familiarization with the equipment by signing a check list listing all units he shall be able to operate. Minimum knowledge is:

A : He shall have all the knowledge as listed in the other alternatives

QQCV : A lifejacket should be provided with:

A : a whistle and a light

QQEL : Give the meaning of the following symbol

A : Survival craft portable radio

QQFI : MUF stands
for :

A : highest possible frequency that will be reflected by the ionosphere

QQFL : When should equipment be cleaned?

A : Every time the machine has been used.

QQFM : It is the Masters responsibility to ensure that:

A : concerned personnel carry out the on-board training programme effectively

QQNT : Which of these types of information is considered sensitive?

A : Voyage itinerary and departure and arrival times.

QQXI : On a Container vessel, what is most important when preparing a cargo hold to receive containers?

A : Checking for cracks in tank top plating in areas where stack loads are transmitted

QQXI : What is most important when preparing a cargo hold to receive containers?

A : Checking for cracks in tank top plating in areas where stack loads are transmitted

QRAA : Three methods of fire protection regarding internal divisional bulkheading may be adopted in accommodation and service spaces in cargo ships. Which of the given methods do not correspond to present rules? (SOLAS II-2/42.5)

A : Construction of all internal bulkheads of class "A" divisions

QRAC : How many buoyant smoke signals are carried in each liferaft?

A : 2



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

QRAX : On a Container vessel, which of the following statements is incorrect with regard to IMDG Class 2 cargoes?

A : These goods need to be stowed in a protected location

QRAX : Which of the following statements is correct with regard to IMDG Class 2 (gases) cargo?

A : All

QRAX : Which of the following statements is incorrect with regard to IMDG Class 2 cargoes?

A : These goods need to be stowed in a protected location

QRBC : The typical "daylight-frequencies" for long distance transmission are located in the:

A : 16 or 22 MHz-band

QRDV : A situation exists where a cargo of palletised fruit is being loaded to capacity on a conventional reefer vessel. In order to load all of the available cargo it is proposed to break down some of the pallets and place the loose cartons on top of the pallets; there is just enough space to accommodate this below the deckhead. From the options given which is the most suitable action to take?

A : Reject the plan as the reduced gap at the top of the stow will restrict the return air flow.

QRJT : An engine room rating is assisting the duty engineer during a period of UMS operation. After completing the tasks they have been busy with the engineer and rating leave the engine room which is returned to UMS mode. The rating realises that an oil tank filling valve has been left open. What action should be taken?

A : Inform the duty engineer immediately so that the engine room can be re-entered and the valve can be shut.

QRKE : Which of the following detailed explanations should be mentioned in the Training Manual ?

A : The methods of retrieval

QRKK : When ballasting double-bottom tanks with sea water on a bulk carrier, which of the following should be avoided?

A : Ballasting all tanks together including fore peak tank (FP) and after peak (AP) tank.

QRRX : Liquefied gases carried as cargoes are divided into different groups by IMO. What are the main groups?

A : Saturated and unsaturated hydrocarbon gases and chemical gases.

QRRX : Liquefied gases, including LNG, which are carried as cargoes are divided into different groups by the IMO. What are the main groups?

A : Saturated and unsaturated hydrocarbon gases and chemical gases.

QRRX : Liquefied gas is, by IMO, divided into different groups. What is the criterion for this division?

A : The boiling point, chemical bindings, toxicity and flammability.



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

QRUF : Welding and use of open flames on board tankers in operation are subject to regulation laid down by the Norwegian Maritime Directorate (Norwegian Ship Control Legislation - NSCL). Which of the listed requirements regarding washing and gas freeing before hot work in cargo tanks corresponds to these regulations? (NSCL 22/1294/7).

A : Gas concentration measuring and examination in connection with cleaning and gas freeing shall be carried out by the safety delegate.

QRVV : Wearing an immersion suit when abandon ship is effective permits the person:

A : to jump from a height of 4.5m into the water without being injured or damaging the suit

QRXO : At which level will the slop-system high level alarm sound ?

A : 98 %

QSAT : What is the required capacity of the inert gas plant?

A : At a rate of at least 125% of the maximum rate of discharge capacity.

QSAU : What is "DRAUGHT", in the figure?

A : Draught is D, in the figure

QSBA : Who can undertake initial and other Safety Radio Certificate surveys on a UK ship

A : GEC-Marconi

QSBU : Which among the following list is particularly required for a totally enclosed lifeboat ?

A : above water escape for its occupants after automatically positioned in damaged condition

QSQU : What do we understand by atomizing when we talk about injectors ?

A : That no solid beam of fuel shall be present

QSRN : The engine is started by compressed air. Which one of the following statements is correct ?

A : A heavily leaking starting air valve can cause an explosion in the starting air pipe system.

QSRP : What is Hypothermia and how is it cured?

A : Body temperature below 35C / Heat the body

QSRs : Instructions for "Preparation for welding or hot work in cargo tanks" is laid down by the Norwegian Maritime Directorate. During ongoing inspection on work in cargo tanks, the gas concentration shall be measured:

A : At three levels for at least two places in the tank.



QSUB : Give the meaning of the following symbol

A : Line throwing appliance

QSVG : What would indicate the onset of Parametric Rolling?

A : When the wave encounter period approaches the natural roll period of the ship

QSXM : How large a deviation in opening pressure can be accepted in a diesel engine injection valve?

A : 15 kg/cm²

QSNX : A vessel, which has a mariphone with a license, is sold. What should be done next?

A : Inform RDR by mail of the sale of the mariphone

QSXP : Which of the following is a characteristic that is required for a "class A" bulkhead or deck ?

A : it stops the spreading of smoke and flames during one hour

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A : it stops the spreading of smoke and flames during one hour

QSYH : What precautions should be taken, in addition to shutting the main air start valve, if work is to be carried out inside the main diesel engine crankcase?

A : Engage the turning gear on the engine.

QSYH : What precautions should be taken, in addition to shutting the main air start valve, if work is to be carried out inside the main diesel engine crankcase?

A : Engage the turning gear and put a notice at each engine control position.

QTBT : The muster list shall specify details of general alarm signal and also actions to be taken by crew and passengers when the alarm is sounded. Which of the following actions do not necessarily have to be included in the muster list? The muster list shall:

A : be prepared and approved by the Administration before the ship proceeds to sea



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

QTDK : The water content of inert gas is important when the gas is used for cargo tank inerting and drying operations on a liquefied gas carrier. Which drier arrangement for the inert gas will result in the lowest water content and dew point of the inert gas?

A : Absorption drier gives the lowest dew point down to -60°C

QTEG : From the list below, which is among the recommended actions for a vessel to take, on entering an area known for pirate activity?

A : To transit with maximum safe speed

QTFE : The muster list shall show the duties assigned to the different members of the crew. Which of the given duties do not necessarily have to be included in the muster list?

A : Clearing escape routes

QTFF : On a bulk carrier, provided it is considered safe to do so, what is the most effective method of cleaning a cargo hold that contained grain?

A : Sweep and clean cargo holds from the top down as discharge progresses followed by a final wash

QTFF : Provided it is considered safe to do so what is the best method of cleaning a cargo hold that contained grain?

A : Sweep and clean cargo holds from the top down as discharge progresses followed by a final wash

QTGP : Despite setting what appears to be the correct delivery air temperatures in accordance with shippers instructions, large cargo loss claims can still occur when operating reefer vessels. Which of the options given is likely to help avoid the majority of these large claims?

A : By confirming the temperature scale that the shipper is using in his carriage instructions, Fahrenheit or Celsius.

QTHR : What is the correct name of the part highlighted in the sketch?

A : Camshaft

QTLR : Which class of emission is used for VHF DSC transmissions ?

A : F1B

QTMI : What can be the punishment for a shipmaster of a Norwegian ship if he without sufficient cause refuses to receive onboard persons for whom Norwegian authorities must provide transportation?

A : He shall be liable to fines or imprisonment for a term not exceeding three months.

QTOF : Which vitamin is found only in meat and fish?

A : Vitamin E

QTRL : What is the meaning of this symbol ?

A : Embarkation ladder



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

QTRM : In a distress situation how many times, or for how long is the emergency alarm signal to be sounded?

A : Until all crew members and passengers have reported to their respective muster stations.

QTSJ : On the diagram, which letter indicates what is meant by the word "DRAUGHT" of the ship?

A : Draught is given by D on the figure

QTWV : Carbon dioxide, CO₂, can solidify and form dry ice at low temperatures. What is the solidifying temperature of CO₂?

A : approximately minus 78.5 C

QTWV : What is the solidifying temperature of CO₂?

A : -78,5 C

QTYE : When an HF band a DSC distress alert is received, you have to listen to:

A : the radiotelephony distress frequency in the band in which the DSC distress alert was received

QUAD : In many cases the ships Chief Engineer can carry out survey of machinery on behalf of a Classification Society under arrangements covering Continuous Surveys. As part of this arrangement a Surveyor from the Classification Society must carry out a periodic audit of the documentation for the approved planned maintenance system and undertake a confirmatory survey of the items surveyed. What is the normal frequency for this audit?

A : Annual.

QUDA : The following cargoes are all "carcinogens": Acrylonitrile, Aniline, Benzene, Chloroform, Epichlorohydrin and Toluene. What is a "carcinogen"?

A : A substance capable of inducing cancer.

QUDA : The following chemical cargoes are all "carcinogens": Acrylonitrile, Aniline, Benzene, Chloroform, Epichlorohydrin and Toluene. What is a "carcinogen"?

A : A substance capable of inducing cancer.

QUEX : What kind of process is a fire?

A : all the answers are good

QUEY : To find Methylene Bromide in the IBC/BCH code, what do you need to look up on ?

A : Dibromomethane.

QUFU : During loading of a cargo of bananas the fruit should be checked for suitability for transport. In determining if the fruit is fresh which of the given options would be the best one to indicate that the fruit is suitable?

A : The cut where the fruit has been separated from the parent plant should be yellow and sappy.



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

QUGE : On a Container vessel, what are Dangerous Goods within the context of containerisation?

A : Goods that are liable to cause damage to the ship

QUGE : What are 'Dangerous Goods' within the context of containerisation?

A : Goods that are liable to cause damage to the ship

QULK : How many sections are contained within the Official Log book?

A : 8

QULS : You discover bugs in the white flour stored in the store room for dry stores. Where would you move the flour to prevent the problem from spreading any further?

A : In the meat freezer

QUNH : What is the meaning of this symbol ?

A : Embarkation ladder

QUNI : What is the role of the British Consul in relation to British ships?

A : To assist in dealing with crew, cargo or ship regards whilst in a foreign port

QUNN : Anyone who without valid reason places, removes, changes or conceals nationality marks or registration marks of a registered ship shall be liable to???

A : Fines.

QUOY : Why is line clearing from shore considered as a high risk operation?

A : Because serious structural damage and overflow can be caused by the creation of pressure in the tanks during this operations.

QUQP : Read the text in the frame before answering the question: What has been ascertained after recent debates?

A : That there is great concern and interest regarding the safety at sea

QUUQ : The display of a DSC-controller shows the following:(see original)The name of this station can be found in:

A : List of Call Signs and Numerical Identities

QUUS : A distress alert sent by Inmarsat to an RCC is sent via:

A : LES



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

QVAE : On a RoRo vessel, what stowage factors should be taken into account when planning the loading of cars?

A : The longitudinal and athwartship distances between the cars

QVAE : What stowage factors should be taken into account when planning the loading of cars?

A : The longitudinal and athwartship distances between the cars

QVAE : What stowage factors should be taken into account when planning the loading of cars, in a pure car carrier?

A : Longitudinal and athwartships distances between the cars

QVCN : If a person has been overcome by fumes from toxic cargoes such as acetone cyanohydrin and has ceased breathing, you would:

A : Wait for a resuscitator to be brought from the ship's first aid locker and use it?

QVEY : TBN - total base number from a lube oil test, indicates the:

A : The alkalinity of the oil.

QVEY : TBN - total base number from a lube oil test, indicates the:

A : Alkalinity of the lubricating oil.

QVFT : A lead battery of 200 Ah, in accordance with the DIN-standard, must be able to supply:

A : 10 ampere during 20 hours

QVFU : What is the signal used by a life saving station or rescue unit indicating that distress signals are observed at night time ?

A : 3 White star rockets

QVLG : Which of the following features is required for an anti-exposure suit ?

A : has inherent buoyancy of at least 70N

QVMD : What should be done to the bilge spaces in a cargo hold of a bulk carrier, after cleaning and testing?

A : Drain plate over bilge to be fitted and then covered with burlap

QVRB : Which (new) Act was given a new basic structure in 1994.

A : The Maritime Act



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

QVSY : Passenger ship engaged in international voyages must conduct a muster for all passengers. What is the time limit for this exercise?

A : 24 heures

QVYV : During a normal voyage, heat is transferred to the LNG cargo through the cargo tank insulation, causing vaporisation of part of the cargo. The composition of the LNG is changed by this boil-off because the lighter components vaporise first. Which of the components in the LNG cargo will have a lower percentage on arrival discharge port?

A : Methane.

QVYV : During a normal voyage heat is transferred to the LNG cargo through the cargo tank insulation which causes some boil off of the cargo. This boil off changes the composition of the LNG as more of the lighter components will vaporise. Which component of the LNG cargo is likely to have a lower than original percentage on arrival at the discharge port?

A : Methane.

QWBM : In a diesel engine lubrication system the circulating pump normally takes suction from the oil sump tank. Where would the oil normally pass to directly after the pump?

A : Lube oil cooler.

QWBM : In a diesel engine lubrication system the circulating pump normally takes suction from the oil sump tank. Where does the oil pass to directly after the pump?

A : Lube oil cooler.

QWBO : What would be the effect if air was to enter the freon system?

A : Increase in condenser pressure.

QWEQ : In U.S. waters the OPA rules have to be taken in considerations, but what types of ships do these rules affect?

A : All ships.

QWFO : A refractory material is one that will retain its solid state even at very high temperatures, and furnace temperatures as high as 1650 °C have been recorded in marine boilers. What is the primary purpose of using a refractory?

A : All of the mentioned alternatives.

QWGM : How often shall watertight doors in main transverse bulkheads which is in use at sea be operated (tested)?

A : Daily

QWIA : Which type of equipment can be used to detect explosives?

A : Particulate detector

QWIF : What must duty crew members do to ensure that ro-ro units are not damaged on board a RoRo vessel?

A : Units must be driven at a safe speed



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

QWIF : What must duty crew members ensure so that ro-ro units are not damaged on board?

A : Units must be driven at a safe speed

QWJQ : Which of following items shall be included in an abandon ship drill?

A : reporting to stations and preparing for the duties described in the muster list

QWKM : Due to the safety of the ship its crew and passengers it is only permitted to in designated areas onboard

A : Smoke

QWNO : On a container vessel, what is of utmost concern during a loaded passage in winter across the North Atlantic

A : The added weight of icing on container stacks

QWNO : What is of utmost concern during a loaded passage in winter across the North Atlantic

A : The added weight of icing on container stacks

QWNO : Where should a container containing Calcium Hypochlorite be stowed?

A : On deck shaded from direct sunlight and stowed away from sources of heat

QWVK : What is Hz the abbreviation for?

A : Frequency in Cycles per second

QXAK : Which activity will have the greatest fire-fighting effect in case of a fire?

A : Extinguishing attempt is started immediately

QXAM : How should chemicals and harmful substances be stored on board?

A : In a separate locker. The locker shall be clearly marked, locked and ventilated.

QXFN : What are the requirements for heat exchangers that are used for heating the cargo during cargo handling operations on an LPG carrier?

A : Heat exchangers that are utilised for cargo handling must be designed and tested to tolerate the products the carrier is registered to transport

QXFQ : A palletised fruit cargo is being loaded into a cargo space which will be partly empty at the completion of loading. In order to secure the cargo which of the options given is the best way to complete the stow?

A : With the face of the stow athwart ships (side to side across the compartment).



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

QXGH : Where do we find information regarding fire extinguishers, fire doors, remotes release buttons, fire equipment etc. onboard a ship?

A : The ship's fire plan.

QXGL : With reference to diesel engine ancillary system operation, which one of the given statements is true?

A : Normal jacket water temperature after the cooler is approx. 80 C

QXIB : How would an enclosed space be defined?

A : One in which the atmosphere may have a deficiency of oxygen or may have a toxic gas

QXLI : Why is it imperative that when the Disciplinary procedure is invoked, all details are carried out in front of a witness and recorded in the official log book

A : If the seaman brings a case of unfair dismissal against the Master/Company, it serves to ensure that all details have been recorded and is admissible as evidence

QXMC : Which one of the listed routine test and inspections of life-saving appliances is not required by the regulations?

A : General emergency alarm to be tested daily

QXPD : On a RoRo vessel, what dangers are associated with using a steep loading ramp?

A : The ends of ro-ro units can be damaged

QXPD : What dangers are associated with using a steep loading ramp?

A : The ends of ro-ro units can be damaged

QXPD : What dangers are associated with using a steep loading ramp, on a ro-ro vessel?

A : The ends of ro-ro units can sustain damages

QXVN : Compressors for handling vapour from liquefied gas cargoes are fitted as part of the cargo handling plant on liquefied gas carriers. How is liquid prevented from entering the compressor suction?

A : A liquid separator is fitted in the vapour line between the cargo tank and the compressor.

QXVN : Compressors for handling vapour from liquefied gas cargoes are fitted as part of the cargo handling plant on LNG carriers. How is liquid prevented from entering the compressor suction?

A : A liquid separator is fitted in the vapour line between the cargo tank and the compressor.

QXVN : How to prevent liquid from getting into cargo compressors?

A : By use of liquid receiver on the vapour line between the cargo tank and compressor.



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

QXVS : According to the IBC Code, the master of a chemical tanker must be supplied with a loading and stability information booklet. What must this booklet contain?

A : Details of typical service and ballast conditions, provisions for evaluating other conditions of loading and a summary of the ships survival capabilities, together with sufficient information

QXVS : According to the IBC Code, the master of a ship be supplied with a loading and stability information booklet. What must this booklet contain?

A : Details of typical service and ballast conditions, provisions for evaluating other conditions of loading and a summary of the ships survival capabilities, together with sufficient information

QXXB : Under GMDSS rules the trading area A3 can be considered to be:

A : Within coverage of the INMARSAT system.

QYAI : Which of the following detailed explanations should be mentioned in the Training Manual ?

A : The use of helicopter rescue gear

QYAM : What is the minimum length of the buoyant lifeline that is fitted to a lifebuoy which is stowed at a distance of 10 metres above the waterline (light condition)?

A : 30 metres

QYBG : In a distress-situation a MF/HF-DSC transmission is used in the 8MHz frequency. In this case always:

A : indicate on what frequency communication will be continued

QYFF : Why do bulk carriers need to carry oxygen analysis and gas detection equipment?

A : Because this equipment is required under SOLAS 74/88

QYFF : Why is it necessary to carefully plan work procedures, with a bulk cargo terminal, regarding the use of bull dozers and/or pneumatic hammers?

A : Because wrong procedures can distort or weaken areas of the ship's structure

QYGI : With the exception of some citrus fruits and bananas, fruit is usually pre-cooled to the required carriage temperature prior to loading on a reefer vessel. In order to protect the cold chain, and to maintain the temperature of the fruit, a minimum exposure time to ambient conditions during loading is necessary. What action should the deck officers take during loading to achieve this minimum exposure time?

A : Close the hatches and apply cooling to the cargo already loaded during any break in cargo operations that exceed 30 minutes.

QYIF : What does the cargo capacity of a car carrier depend upon?

A : The size of vehicles for which it is designed

QYIF : What does the cargo capacity of a RoRo car carrier depend upon?

A : The size of vehicles for which it is designed



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

QYKI : Normally, a vessel sails in salt water and therefore salt water draughts are those which are referred to. If there is a change in density however, this must be taken into account because the true draughts of the ship will change. Which of the definitions below is that of this "Fresh Water Allowance"?

A : The number of millimetres by which a vessels True Mean Draught changes when she passes from salt water to fresh water, or vica versa.

QYMA : Give the meaning of the following symbol

A : Secondary means of escape

QYNU : Tank (4) in the outlet piping is designed to:

A : Prevent air accumulation in the cooling water system

QYOS : What is the correct way to obtain a reduced capacity with a centrifugal pump?

A : Throttling of delivery valve

QYOS : What is the correct way to obtain a reduced capacity with a centrifugal pump?

A : By throttling of the pump discharge valve

QYQB : Generally speaking, what is the value commonly recognised as the maximum concentration of CO₂ allowed in the breathing air of a breathing apparatus?

A : 1000ppm

QYRW : During search and rescue operations an aircraft crosses the wake of your vessel close astern at low altitude. What does it indicate, if the aircraft rocks its wings, opens and closes the throttle or changes the propeller pitch?

A : Your assistance is no longer required

QYRW : During search and rescue operations, an aircraft crosses the wake of your vessel close astern at low altitude. What does this indicate if the aircraft rocks its wings, opens and closes the throttle or changes the propeller pitch?

A : Your assistance is no longer required

QYUD : What kind of safety protection is to be weared during a mooring operation?

A : Helmet, safety shoes, gloves and protecting cloths.

RABL : Give the meaning of the following symbol

A : Push button for fire alarm

RAGG : Give the meaning of the following symbol

A : Line throwing appliance



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

RAHA : Total Base Number (TBN) is important as a measure of neutralizing ability against strong Acids. What will You do if this TBN base number is reduced to a low level?

A : Renew lub oil in the system.

RAHB : As a general rule, where would you expect to find a portable fire extinguisher intended for use in a space?

A : Near the entrance to that space

RAKK : What is the centre for overall co-ordination of rescue operations called?

A : Rescue Co-ordination Centre

RALO : Sea area A3 is in maritime radio traffic a sea area:

A : with the exception of the A1 and A2 area, within the coverage of an Inmarsat satellite'in which continuous alerting is possible

RAMF : What is the required number of hours that a SARTs battery must be able to operate the unit in the standby mode?

A : Four (4) days.

RAMJ : On a Container vessel, where should fixed stacking cones be positioned?

A : At the base of cell guides

RAMJ : Where should fixed stacking cones be positioned?

A : At the base of cell guides

RAOX : Why must draught marks be read on both port and starboard sides of a bulk vessel when accurate draughts are required

A : The vessel may appear up right but often will be found to have a slight list when port and starboard marks are compared

RARA : How shall the Norwegian Maritime Directorate be informed when a seafarer is seriously injured on board?

A : By a telecom report followed by a report on a personal injury report form

RARC : All closing arrangements, stowing of cargo etc. are subject to regulations by the Norwegian Maritime Directorate (NMD).Which of the following requirements regarding hatches, hatch covers etc. corresponds to present regulations? (NSCL 4/10.1.1 - 10.1.2)

A : Information regarding maximum deck cargo permitted shall be available.

RARK : As a fire fighter, what should you always consider when fighting a fire in a confined space?

A : The confined space always has six sides



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

RASE : Where do we find relevant information regarding Construction and Equipment of Ships carrying Liquefied Gas in Bulk?

A : In the IGC Code.

RASE : Which of the International Maritime Organisation (IMO) Codes contains information regarding the Construction and Equipment of Ships carrying Liquefied Gas in Bulk?

A : In the IGC Code.

RAVI : Which one of the listed requirements regarding the stowage of rescue boats do not correspond to present regulations? (SOLAS III/14)

A : Rescue boats shall be stowed attached to launching appliances

RBCW : When handing over the con of a vessel to a pilot, should the Master insist in discussing the passage plan with the pilot while he is there to use his local knowledge and advice on the navigation of the ship?

A : - A passage plan should be discussed between the Master and pilot, when under pilotage in the same way as discussed with the bridge team when deep sea

RBCW : When handing over the con of a vessel to a pilot, should the Master insist in discussing the passage plan with the pilot while he is there to use his local knowledge and advice on the navigation of the ship?

A : The master or his qualified representative must be on the bridge at all times

RBDT : What is the requirement for stopping arrangements for power-ventilated accommodation spaces, cargo compartments, machinery spaces, service spaces and control stations (ships other than passenger ships carrying more than 36 passengers)? (SOLAS II-2/16.10)

A : Must be capable of being stopped from an easily accessible position outside the space being served

RBEN : Which one of the following types of rope is the most dangerous to work with?

A : Nylon.

RBEP : Falls used in launching shall be turned end for end at an interval of not more than X months and to be renewed not later than every Y years, where the intervals are:

A : 30 months / 5 years

RBHY : The sign on the image indicates:

A : Location of immersion suit(s)

RBMR : When working in parts of the inert gas system such as the scrubber or deck water seal, what procedure must be followed?

A : Enclosed space entry.

RBMR : Which of the following statements is generally true in relation to inert gas systems for LNG carriers?

A : Most LNG carriers have a combustion type inert gas generator for the cargo tanks and a Nitrogen supply or generator for interbarrier and hold spaces.



RBPN : Which of following are security duties?

A : All alternatives

RCAM : Where would you find the document relating to the "Condition of Freeboard Assignment" onboard?

A : - With the Loadline Certificate.

RCCV : When a fire breaks out in the engine room, who is in charge of the fire fighting operations?

A : The Chief Engineer

RCFG : Should recommended route information be used in conjunction with weather routing?

A : Yes

RCLB : Mention some important thoughts for what you have to do when you recognise that fire break out onboard.

A : Report to bridge or duty officer, actuate the fire alarm, call the persons around the fire and join the fire squad

RCLC : The effectiveness of foam is based on:

A : smothering and cooling

RCLY : High oxygen content in the fluegas may be caused by:

A : All the mentioned alternatives ?

RCOH : Can a nitrogen blanket be maintained on a cargo containing an inhibitor which is "oxygen dependent"?

A : No, if this is done the lifetime of the inhibitor will be reduced.

RCTK : Before taking insulation resistance readings of generator windings the automatic voltage regulators should be isolated and all semiconductor short circuited or disconnected in order to:

A : Prevent damage to sensitive electronic components from high voltage tester

RVCQ : What distinguishes a "parcel" chemical tanker from other designs?

A : Such a vessel has a higher number of relatively small capacity, independent cargo tanks, each with its own line and pump, enabling it to carry and deliver multiple grades simultaneously.

RCWF : How many hand held distress flares are carried in each liferaft with SOLAS B pack?

A : 3



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

RCWR : Under normal conditions, the electric power for services supplied from the emergency switchboard is supplied from:

A : The main diesel generator or shaft generator.

RCXT : Which of the following will have the highest per kilo price?

A : Boneless beef entrecote

RCXT : Which of the following will have the highest price per kilo?

A : Boneless beef entrecote

RDAY : What action should be taken if the boiler water tests show that the pH-value in the boiler water is slightly over 11.5?

A : Blowdown the boiler and decrease the dosage of boiler water treatment chemicals.

RDBW : Which statutory certificates can never be extended

A : International Oil Pollution Prevention Certificate, UK Oil Pollution Prevention Certificate, Safety Construction Certificate of Fitness.

RDFA : What may be the reason to an unsatisfactory separation result for a fuel oil separator of ALCAP type?

A : Throughput too high.

RDFC : An auxiliary engine is fitted with a duplex type lubricating oil filter. The in-use element requires changing. What procedure should be used to fit the new element?

A : Changing of filter element would not interrupt the engine operation.

RDFC : An auxiliary engine is fitted with a duplex type lubricating oil filter. The in-use element requires changing. What procedure should be used to fit the new element?

A : With the engine running, change over to the other filter after priming it and replace the

RDHU : On a Container vessel, what is defrosting associated with?

A : Reefer containers

RDHU : What is 'defrosting' associated with?

A : Reefer containers

RDJB : The Ziegler-Nichols method is used in control engineering when setting up the system. Which of the system components given in the options would this method be applied to during initial set up?

A : PID controller for tuning



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

RDPC : Which one of the listed requirements regarding two-way radiotelephone apparatus for survival crafts do not correspond to present regulations?

A : The apparatus shall be capable of being operated on VHF channel 16

RDRP : A three phase alternator is connected singularly to the main switchboard. The switchboard instruments show 400 Volts/500 amperes. With a power factor of 0.5 what will be the kW load?

A : 579.2 kW

RDRP : A three phase alternator is connected singularly to the main switchboard. The switchboard instruments show 440 Volts/950 amperes. With a power factor of 0.8 what will be the kW load?

A : 579.2 kW

RDSM : Which of these measures would you implement to prevent drugs from being smuggled onboard your ship while it's berthed?

A : Maintain restricted areas.

RDSN : Which of the following items is essential and should always be kept in stock?

A : White flour

RDSP : Some liquefied gas carriers use prismatic tanks for the cargo containment system. What is the main reason for including a longitudinal bulkhead in prismatic cargo tank designs?

A : To reduce the free surface "sloshing" on the cargo

RDUK : The domestic fresh water supply system onboard ship usually includes a hydrophore tank which is either directly or indirectly pressurised by air. What would be the effect on the system if the initial air pressure was very low?

A : Frequent starting and stopping of the fresh water pump with noticeable variation in pressure at the water taps.

RDUK : The pressure control of a vessels domestic water system, which includes a hydrophore tank pressurised by air, is achieved by stop/start of the fresh water pumps using pressure switches. How should the system be prepared for first use to give correct operation of the pressure control?

A : Fill the hydrophore tank to approximately 75% full with water and then pressurise with air up to the pump cut out point.

RDWQ : Which emission class is used in the NAVTEX system

A : F1B

REHM : Besides the Jensen Sling what other method is used to load and discharge paper reels?

A : The vacuum lift

REHM : Besides the Jensen Sling, what other method is used to load and discharge paper reels from a general cargo vessel?

A : The vacuum lift



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

REKE : What type of cargo shall always be secured?

A : Freight vehicles carrying dangerous goods and adjacent vehicles should always be secured.

REMU : Training manuals for Life Saving Appliances and Fire Fighting systems and equipment shall be provided in crew mess room, recreation room or in each crew cabin. The training manuals shall explain the following in detail:

A : Emergency procedures including alarm signals, general instructions and safety practice onboard, specific information on equipment, operation of equipment

REMU : What factors do you consider as important before mooring a vessel?

A : Use of proper Personal Protective Equipment, Well maintained mooring equipment, Make sure the area is tidy and clean, Mooring stations should have effective hazard markings/ hazard highlightin

RENR : What extent of knowledge must nominated persons, (excluding the officer with overall charge) participant in the operation have according to the cow manual?

A : Fully knowledgeable of the content.

REOI : The revolutions on the turbocharger have increased during the night with unmanned engine. Could this be caused by:

A : The current and wind are holding the vessel back

REOI : The revolutions on the turbocharger have increased during the night with unmanned engine. Could this be caused by:

A : The engine load has increased due to external factors such as current and wind.

REXQ : Eavesdropping and phone taps are examples of which threat to information security?

A : Espionage

RFBU : Which class of emission is used for VHF radio telephony transmissions ?

A : G3E

RFFV : What type of lubricating oil is generally used for for cylinder lubrication on a large, 2-stroke diesel, main propulsion engine?

A : Alkaline.

RFFV : What type of lubricating oil is generally used for for cylinder lubrication on a large, 2-stroke diesel, main propulsion engine operating on heavy fuel oil?

A : Alkaline.

RFGU : The Classes drawn up by the UN Committee of Experts for the safe handling of hazardous substances, as listed in the IMDG Code, are drawn up on the basis of which of the following criteria?

A : The type of hazard they present.



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

RFGW : You are sailing in shallow water, with 15% Under Keel Clearance. How will the stopping distance be, compared to deep water?

A : Longer

RFHP : What can happen with a lub. oil cooled piston if You stop the lub. oil pump immediately after You stop the engine?

A : Overheating of the piston, and oil coke deposits in the cooling chambers.

RFJB : The water cooling space on the turbocharger is damaged and you have no spares. The cooling water must be closed. Which steps would you take to ensure least possible damage?

A : Dismantle the rotor and assemble the sealing plate

RFJD : What is the most favorable heading of own vessel when launching a lifeboat / MOB?

A : Vessel steering a few degrees off weather / sea (approx 30 degree)

RFKY : Which among the following list is particularly required for a totally enclosed lifeboat?

A : Arrangement for rowing

RFPA : By wave length is understood:

A : the distance travelled by a radio vibration in a period

RFWU : A bulk cargo of steel coils is loaded and a number of the coils are noted by the Chief Officer to be rusted; what must the Master ensure?

A : Clause the Bill of Lading with the reference numbers of the rusty coils and so make the Bill of Lading a "dirty" Bill.

RGAT : GMDSS regulations require that vessels carry two-way VHF for survival craft. How many are required, and when do the regulations apply?

A : 3 sets. New-builds from February 1992, other vessels from February 1995

RGAY : What should be the status of the suction and discharge valves when starting a centrifugal pump?

A : Suction valve open, delivery valve closed

RGBR : What is the advantage of a transmitter with a narrow measurement range

A : Better linearity and increased accuracy

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A : Better linearity and increased accuracy



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

RGCL : What is the term used to identify the division that stops the flames until the end of the first half hour in a standard test of fire exposition, taking into account that the average temperature of the non-exposed face doesn't rise more than 139°C above the initial temperature, and also that the temperature at any place does not rise more than 140°C above the initial temperature in the interval of 15 minutes?

A : B-15

RGCP : How often are "abandon ship" drills required to be held on cargo vessels according to SOLAS?

A : Once every month.

RGEC : A PH scale (meter or strip of paper) has values from 0 to 14, which values has acid?

A : 0 - 7

RGFD : In cargo ships of less than 1000 gross tonnage the number of fire hoses (not including any hose required in any engine room or boiler room) must be:

A : To the satisfaction of the administration

RGFU : What can we achieve with improved knowledge of cleaning?

A : In all professions you have to learn before you can manage a job.

RGGR : On area A2 the function " Transmission and reception of on scene communications" is mainly based on:

A : the use of MF and/or VHF R/T

RGKG : What is the world-wide system operated by the US Coast Guard exclusively in support of search and rescue operations?

A : - The Automated Mutual-Assistance Vessel Rescue (AMVER) System. ^

RGMH : Which of the following options is the most likely cause of high exhaust gas temperatures in all cylinders of a diesel engine?

A : Partial blockage in the exhaust gas system.

RGMJ : The muster list shall show the duties assigned to crewmembers in relation to passengers in case of emergency. Which of the following duties do not necessarily have to be included in the muster list? The duties shall include:

A : ensuring that every passenger is provided with an immersion suit or a thermal protective aid

RGOB : A bulk cargo has been discharged by grabs; what is an important check to make before closing the hatch cover?

A : Check that hatch coaming and sealing bar have not been damaged by grab contact

RGPQ : Before entering the cargo tank of an LNG carrier it will be necessary to inert and then aerate and gas free the tank. What is the atmospheric content of oxygen that is required before tank entry is allowed?

A : 21%.



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

RGPQ : What is the atmospheric content of oxygen that is required before tank entry?

A : 21%.

RGQQ : What kind of special safety measures are required when working on a stage aloft?

A : Harness with a rope secured to a safe point on the ship.

RGTN : Which of these will not physically damage a bulk carriers' plating, frames and brackets?

A : Evacuators

RGTN : Who needs to be trained in the use of oxygen analysis and gas detection equipment?

A : The entire ships crew

RGUC : Under international regulations what is required during bulk cargo operations?

A : Ships' personnel must continuously monitor cargo operations

RGVO : During mooring operations; which is the safe position to be in?

A : Outside the colored zone.

RGVQ : What does it mean if a product has the note F/T in Vapor detection column in the IBC/BCH ?

A : The product is both flammable and toxic.

RGYC : Which of the following services is not provided by INMARSAT C:

A : Telephone

RHCF : Which of the following frequency bands would most likely provide reliable communications between two stations that are 15 miles apart?

A : The Very High Frequency (VHF) band.

RHFC : On a Container vessel, under which IMDG Class is fishmeal carried when not treated with anti-oxidant?

A : Class 4.2 - Flammable solid

RHFC : Under which IMDG Class is fishmeal carried when not treated with anti-oxidant?

A : Class 4.2 - Flammable solid



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

RHFP : The DSC-controller displays the following:DOO: 246321000 CH16 ; S distress flooding After receiving this DSC message nothing more is received. Sending receipt on channel 16 does not give any response. One should first:

A : send a DSC distress alert relay

RHGO : A DSC 'distress alert' message received contains the information: "GROUNDING".This means that :

A : A vessel is aground

RHHI : What applies when loading bagged fishmeal?

A : All

RHHI : Which of the following statements is incorrect with regard to loading bagged fishmeal?

A : Dunnage is not required

RHKU : What do we mean with MARVS on a cargo tank?

A : We mean maximum allowed relieve valve setting

RHPA : What is the recommended maximum salt intake per person per day?

A : 2,300 milligrams (0.08 ounce).

RHUC : In many cases the interbarrier spaces and the hold spaces of an LNG carrier are maintained in an inert condition for added safety. What is normally used to maintain these spaces in an inert condition?

A : Nitrogen gas.

RHUC : The Threshold Limit Value (TLV) refers to as parts to million (PPM) by volume of gas in air. What does the time weighted average of ppm indicates?

A : The maximum exposure to a toxic substance per 8 hours working day.

RHWK : What is the meaning of the term "Span" of a transducer

A : The difference between maximum and minimum measurement that gives a standard output signal

RHWP : The ship has completed a 360 degree turn at full speed in deep water. The ship is now to repeat the turn at full speed in shallow water. What will be the difference in the turning circle diameter?

A : No, the turning diameter will be increased in shallow water

RHXD : What is the meaning of this symbol ?

A : Start air supply



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

RHYX : How is loss of electric power or other fault conditions of fire-detection and fire-alarm systems to be indicated? (SOLAS II-2/13.1.2)

A : By audible and visual signals at the control panel

RIAI : Prior to removing the access doors to a pressure vessel for internal maintenance it should be ensured that all pressure has been relieved. As well as a zero indication on a pressure gauge which other measure, from the options given should be taken to confirm this prior to commencing the work?

A : Open the drain valve while pressure still shows on the gauge and to check it is clear. Outflow should cease as the pressure gauge reaches zero.

RIFO : Which one of the listed requirements regarding the stowage of a survival craft corresponds to present SOLAS regulations? Each survival craft shall be stowed:

A : In a secure and sheltered position and protected from damage by fire or explosion.

RIGH : What pollution category does Aniline belongs to ?

A : C

RIGH : What pollution category does Aniline belongs to ?

A : C

RIHE : What specific areas would be covered in a safety officers inspection

A : Means of access, working environment, working conditions and general compliance with regulations

RIIT : At which of the pressures shown should the low suction pressure trip operate on a freon compressor?

A : +2 bar

RIOP : When a number of merchant vessels, but no rescue units or warships, are participating in a search and rescue operation, one of the vessels will have to assume the duty as co-ordinator (CSS). Which one of the listed items is most important when designating a CSS?

A : Good radio communication facilities (preferable 2182 kHz and/or 156.8 MHz (channel 16) radiotelephony and 500 kHz radiotelegraphy)

RIPO : When maintenance work is to be carried out on an electric motor driving a centrifugal water pump with automatic start, should you;

A : In conjunction with the senior watchkeeper and electrician, isolate valves, electrical

RIPO : When maintenance work is to be carried out on an electric motor driving a centrifugal water pump with automatic start, should you;

A : In conjunction with the senior watchkeeper and electrician, isolate valves, electrical supply, automatics and post 'Do not operate' signs before commencing work.

RIPO : When maintenance work is to be carried out on an electric motor mounted on a centrifugal water pump with automatic start, should you;

A : In conjunction with the senior watchkeeper and electrician, isolate valves, electrical supply, automatics and post 'Do not operate' signs before commencing work.



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

RIPO : When maintenance work is to be carried out on an electric motor mounted on a centrifugal water pump with automatic start, should you;

A : In conjunction with the senior watchkeeper and electrician, isolate valves, electrical

RIRG : For any engine room operated in UMS-mode, defined checks are to be carried out prior to switching to UMS-mode. Is it the Engineer on Dutys responsibility to have the full control of condition of any check items prior to switching to UMS-mode and leaving the engine room, or may he leave the engine room for a short period trusting the alarms and automatic functions are sufficient for safe operation?

A : A described UMS-mode check shall always be carried out prior to leaving the engine room, irrespective of the time he will be absent.

RIRJ : Which type of vessel suffers from the greatest squat effects?

A : Vessel with a high block coefficient

RISB : A power card from a slow speed diesel engine cylinder is abnormal with a low height and the body of the diagram thicker than normal. What is the most likely cause of this?

A : Fuel timing is retarded.

RITQ : At what time shall automatic sprinkler, fire-detection and alarm systems be capable of immediate operation? (SOLAS II-2/12.1.1)

A : At all times

RIUL : Any ship of 10.000 tons gross tonnage and above shall be fitted with oily-water separating equipment for the control of machinery space bilges. What kind of equipment is required in this connection?

A : Either Oil fitting equipment , or Oily-water separating equipment , or combination of both

RIUL : Any ship of 10.000 tons gross tonnage and above shall be fitted with oily-water separating equipment for the control of machinery space bilges. What kind of equipment is required in this connection?

A : Either Oil fitting equipment , or Oily-water separating equipment , or combination of both.

RIVP : On area A2 the function " Transmission of ship to shore distress alerts" is mainly based on:

A : the use of MF DSC

RIWF : Give the meaning of the following symbol:

A : child's lifejacket

RJEK : From where can one obtain information regarding the segregation of dangerous goods packed in cargo transport units?

A : Special tables in the IMDG Code

RJEK : On a RoRo vessel, where can one obtain information regarding the segregation of dangerous goods packed in cargo transport units?

A : Special tables in the IMDG Code



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

RJHC : Which VHF channel should be used for intership navigation safety communications?

A : Ch.13

RJHY : What is the meaning of this symbol ?

A : Secure hatches

RJIE : While getting tools ready and preparing for overhaul work on the main engine the engine room rating notices that the electrical extension is damaged. A small section of the cables outer insulation is split although the inner insulation appears ok. What action should the rating take?

A : Label the damaged extension as unfit for use and return it to the store for testing and get a replacement extension.

RJJB : Proper and accurate inventory of stores should be maintained in order to:

A : Control the ships budget

RJQB : A General Cargo vessel on completion of the loading has a large metacentric height (GM); what will be the predicted behavior of the vessel in a seaway ?

A : A fast roll period and large righting levers (GZ Levers)

RJUQ : If drugs are discovered onboard your ship....

A : Ensure the witness to the discovery signs your incident report.

RJWB : With the compensating needle screw of a Woodward regulator is closed, what will happen when the load is changing?

A : Woodward regulator will regulate very slowly

RJYN : Certain live refrigerated cargoes such as fruit, salad, vegetable and plant cargoes are sensitive to ethylene during shipment. Select the option which best completes the following statement. "Ethylene is described as a gas which" ...

A : ...is a natural fruit ripening hormone.

RKCR : How would you prevent hot liquids spilling from pans in heavy weather?

A : Fit guard rails around the range and fill the pans to a lower level than usual.

RKDU : To what depth can bulk carriers (constructed after 1 July 1999) be loaded, to withstand flooding of any one cargo hold?

A : The Summer loadline

RKDU : When loaded to what depth can bulk carriers constructed after 1 July 1999 withstand flooding of any one cargo hold?

A : The Summer loadline



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

RKFK : If you discover serious technical deficiencies on your vessel, what would you do?

A : Report to and discuss with the Master.

RKHY : Which one of the following requirements regarding radio telephone stations do not correspond to present regulations?

A : While at sea the installation shall be maintained in a satisfactory condition

RKIR : The rudder is hard over when steaming at full ahead in shallow water. How much "lift force" remains when the engine is stopped?

A : About 10 %

RKIR : The rudder is hard over when steaming at full ahead in shallow water. How much "lift force" remains when the engine is stopped?

A : - About 10 %

RKIX : Under GMDSS rules the trading area A1 can be considered to be:

A : Within range of VHF coast radio stations.

RKJP : What is the deepest Subdivisional Load Line?

A : Waterline corresponding to deepest allowed draft permitted by subdivision requirements

RKKC : Give the meaning of the following symbol:

A : immersion suit

RKLD : When you have an urgent message concerning the safety of a vessel, aeroplane or any other means ofor a person, then you have to use:

A : PAN PAN

RKMT : With full load on the main engine, the RPM for the turbocharger is too low. What may cause this?

A : The diffuser ring is damaged.

RKMV : Can the audible and visible high-level alarms be a part of the cargo monitoring system ?

A : No, high-level alarms should be a separate system.

RKOI : The identification of a coast station is composed as follows:

A : 00 followed by an MID-number and a station number



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

RKOV : What is the purpose of the "Spray Line"?

A : Used to cooling down cargo lines and cargo tanks prior to cargo operation.

RKOV : What is the purpose of the "Spray Line" as fitted in the cargo system of an LNG carrier?

A : It is used for cooling down the cargo lines and cargo tanks prior to cargo operation.

RKPG : According to the rules of GMDSS vessels one must be able to receive MSI with the aid of:

A : NAVTEX and EGC-receiver

RKPK : What is the correct procedure to adopt when a liquid gas fire occurs?

A : Promptly locate the fire and raise the alarm

RKPK : What is the correct procedure to adopt when a liquid gas fire occurs onboard a liquefied gas carrier?

A : Promptly locate the fire and raise the alarm

RKPM : Must passenger ship carry a rescue boat onboard?

A : Yes, one if the ship is under 500 brt. And two if the ship is over 500 brt.

RKQN : You have just completed washing a stainless steel cargo tank, following discharge of a cargo of Isobutylamine. You have washed the tank with warm salt water. What will you now do to prevent damage to the stainless steel?

A : Rinse the tank with fresh water.

RKQN : You have just completed washing a stainless steel cargo tank, following discharge of a cargo of isobutylamine. You have washed the tank with warm salt water. What will you now do, to prevent damage to the tank lining?

A : Rinse the tank with fresh water.

RKQN : You have just completed washing a stainless steel cargo tank, following discharge of a cargo of Isobutylamine. You have washed the tank with warm salt water. What will you now do to prevent damage to the tank lining?

A : Rinse the tank with fresh water.

RKRA : Who carried out the measurement survey for registration of a British ship

A : A surveyor from one of the 6 societies authorised by the MCA

RKSY : If you are the helmsman on duty, what would be the correct action if the OOW (officer on watch) gives you the order to: "Change over from Automatic pilot to Hand steering".

A : Put the rudder about half way to port to slow down the turning rate



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

RKWT : Is too high separation pre-heating temperature harmful to lubricating oil

A : Not at temperatures used for pre-heating

RKWU : What is the main fire fighting medium for tank deck on oil tankers?

A : Foam is the main medium for tank deck fire fighting on oil tankers

RLAM : Which of following items shall be included in an abandon ship drill?

A : Checking that lifejackets are correctly donned

RLBC : What should be carried out before entering the pump room?

A : Notify the Chief Officer or officer on duty and run the ventilation for at least 15 minutes.

RLCW : Which one of the listed requirements regarding rescue boats do not correspond to present regulations? Rescue boats shall:

A : have self-bailing arrangements

RLDL : A tug is connected in a line at your bow. Will the bollard pull be the same at any speed?

A : No, when the speed exceeds 5 knots we have not much help in a tug

RLDL : A tug is connected in a line at your bow. Will the bollard pull be the same at any speed?

A : - No, when the ship's speed exceeds about 5 knots it will be expected that there will be a reduced pull exerted by the tug

RLEI : How much water per person is provided in a liferaft not equipped with a desalting apparatus?

A : 1.5 litre

RLFI : Why shall knives never be left submerged in washing-up water?

A : Because you may cut your fingers.

RLFV : To prevent inadvertent leaks, bunker manifold not in use should:

A : Have blank flanges fitted with gaskets and tightened with all bolts in place

RLJS : How could your menus best contribute to reducing the number of dental problems amongst the ships crew?

A : By limiting the use of sugar-rich foods and beverages and those containing high levels of starch.



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

RLMB : How much lifeboat capacity should be provided on a conventional cargo ship of more than 85 meters in length ?

A : 100% of the ship's complement on each side

RLPJ : What will you serve seafarers who have been exposed to heat?

A : Cold drinks and salt.

RLPK : Which class of fire is a smouldering fire of wood, textiles, paper and/or other carbonaceous materials?

A : Class A

RLQE : How can you best demonstrate in an audit that you follow company cargo handling procedures?

A : By being able to provide comprehensive and verifiable documentary records of cargo operations.

RLSV : Does MARPOL apply to liquefied gas carriers?

A : Yes, all of it.

RLSV : Does MARPOL apply to liquefied gas liquefied gas carriers?

A : Yes.

RLSV : Does MARPOL apply to LNG carriers?

A : Yes, MARPOL applies to all ship types..

RLVB : What is the single most important factor when dealing with the hydraulic oil for a crane?

A : Use of dedicated, clean dry transfer equipment, ie. buckets, tubing and pumps

RLVD : While their respective characteristics differ in detail, which of the following main operating features do all positive displacement pumps have in common if they are working under non-cavitating conditions?

A : All of the mentioned alternatives.

RLWX : What would happen if water was applied to a container fire involving sodium, uranium or lithium?

A : Hydrogen gas would be produced

RLWX : Why is it dangerous to load wet Scrap Steel in containers?

A : Because the cargo can spontaneously ignite



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

RLWX : Why would it be dangerous to load wet scrap steel borings, turnings and swarf - in containers?

A : Because the cargo can spontaneously ignite

RLYO : Zinc will corrode to protect which of the following metals?

A : Cast steel, Iron, Brass & Bronze.

RMBM : Why do bulk cargo carriers need to carry oxygen analysis and gas detection equipment?

A : Because of enclosed or confined space entry requirements

RMBM : Why do bulk carriers need to carry oxygen analysis and gas detection equipment?

A : Because this equipment is required under SOLAS 74/88

RMHT : When would a certificate which has a validity of 2 years require an intermediate survey, rather than an Annual survey?

A : SEC On tankers over 10 years old

RMIN : Are the seafarers entitled to free boat service to exercise their right to go ashore?

A : Where possible the master shall provide such service. Cost and other circumstances may be taken into consideration.

RMIT : On a container vessel, select from the list the most effective method of dealing with a fire in an under deck cargo space.

A : Deploy the fixed fire fighting system.

RMNJ : For how long does the fixed system of foam guarantee the application of foam on the deck of an oil tanker?

A : 20 minutes if there is inert gas

RMPC : The halogenated hydrocarbons (halon), are hydrocarbons in which molecule one atom of hydrogen (or more) has been replaced by another atom (or atoms)
o f

A : Fluorine and/or bromine

RMPC : The halogenated hydrocarbons (halon), are hydrocarbons in which the molecules have one (or more) atom(s) of hydrogen replaced by another atom (or atoms)
o f

A : Fluorine and/or bromine

RMTF : In case of a fire on the line in an oxyacetylene-line gas welding equipment, what action should be taken?

A : Close the valves on both bottles, first the acetylene and then the oxygen bottle



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

RMTH : What separating temperature do You mean is best for lub. oil.?

A : 85 - 90 Centigrades.

RMUB : The training manual shall contain instructions and information in easily understood terms and illustrated wherever possible. Which of the following objects do not have to be explained in detail in the manual according to present regulations?

A : Instruction for emergency repair of fire-fighting equipment

RMUI : When testing boiler water, should the sample be:

A : At room temperature.

RMUY : What is the state of the refrigerant immediately after the evaporator?

A : Vapour at low pressure.

RMVT : Which one of the listed requirements regarding lifejackets do not correspond to present regulations? (SOLAS III/32) A lifejacket shall be so constructed that:

A : it allows the wearer to jump from any height without injury and without damaging the lifejacket

RMWN : Which one of the following liquefied gas cargoes is considered as presenting a toxic hazard according to the IMO Gas Codes?

A : Ammonia.

RMXG : The vessel has weighed the anchor and is heading for sea. The anchor is to be stowed in position. How?

A : The anchor to be all way in the hawsepipe and secured by brake on winch and wire/chain stopper

RMXL : As regards the launching and recovery arrangements for rescue boats which is required among the following?

A : Means shall be available to prevent any discharge of water on to survival craft during abandonment

RMCS : In a distress situation, how many times or for how long should the emergency alarm signal be sounded ?

A : until all crew members and passengers have reported to their respective muster stations

RNEG : The range of a VHF-set is mainly determined by:

A : the height

RNFB : What shall the master do upon the termination of the employment relationship as to supervision of maritime service?

A : Verify that the seafarer has been given his rights according to law or agreement, make entries in the sea service book or record of service, have a report on seamen sent to the Maritime Employer/Employee Register.



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

RNFM : From the options given, select the most appropriate equipment for washing down a cargo space used for refrigerated cargo.

A : A fresh water hose connected to a fresh water supply.

RNFT : Which one of the following items has to be included in an abandon ship drill?

A : reporting to stations and preparing for the duties described in the muster list

RNFX : On a flue gas plant, the flue gas enters a washing tower where the gas is washed to remove soot, ashes and to separate undesired gases. What is the name of this «washing tower»?

A : Scrubber.

RNOD : Which of the function shown is this operational amplifier circuit performing?

A : Integrator

RNOE : Give the meaning of the following symbol

A : Fire alarm panel

RNOG : The Training Manual shall contain instructions and information on the life-saving appliances and the best method of survival. Which of following detailed explanations of crew duties in relation to emergency situations shall be contained therein?

A : The method of release from launching appliances

RNPA : What is IMO's requirement to maximum temperature for fully pressurised cargo tanks at ambient temperature?

A : 45 C.

RNPA : Why is Methane carried in its liquid state by LNG carriers rather than as a gas?

A : The cargo volume is reduced to approximately 1/600th so smaller ships are required.

RNPW : When a blackout occurs: what should be your first action?

A : Inform the bridge about the reason for blackout, and expected time to restart.

RNPW : When a blackout occurs: what should be your first reaction?

A : Inform the bridge about the reason for blackout, and expected time to restart.

RNSP : Your vessel is to unmoor. Two tugs will assist at the unmooring. How do you want to use the tugs and at which position?

A : Fast FWD and AFT in center lead to pull the vessel out from the jetty and make it in position for voyage



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

RNSP : Your vessel is to unmoor. Two tugs will assist at the unmooring. Which position and how do you want to use the tugs?

A : Fast FWD and AFT in center lead to pull the vessel out from the jetty and make it in position for voyage

RNTY : The ship is to berth alongside a quay in calm conditions of no wind or current. The ship has a single fixed pitch right handed propeller. Which angle of approach would be considered the most favourable?

A : No. 2

RNUD : Give the meaning of the following symbol:

A : child's lifejacket

ROCN : How are the adverse effects of Free Surface avoided on an oil tanker with a full liquid cargo?

A : There are at least two longitudinal bulkheads and a large initial GM

ROCN : What is the difference between a "VLCC" and a "ULCC"?

A : Tankers between 200,000 and 300,000 tonnes deadweight are classified as "VLCC"s while those above 300,000 tonnes are classified as "ULCC"s.

ROFB : What type of cargo shall always be secured?

A : Freight vehicles carrying dangerous goods and adjacent vehicles should always be secured.

ROFS : When overhauling a medium speed diesel engine cylinder cover part of the work involves inspection of the springs for the inlet and exhaust valves. Which of the options given would be the normal inspection method used?

A : Visual inspection and measurement of free length.

ROGK : Liquefied gas carriers and terminals must each have an Emergency Shut-Down (ESD) system. In the event of an emergency during loading which is normally the preferred order of operating these emergency shut down systems?

A : Operate the terminal ESD system first.

ROHD : Under most circumstances, how will communication be carried out between a ship and a SAR helicopter?

A : - On VHFCh 16.

ROII : Which one of the listed requirements regarding liferaft equipment do not correspond to present regulations? The normal equipment of every liferaft shall consist of:

A : thermal protective aids for the number of persons the liferaft is permitted to accommodate

ROML : What are you going to measure regarding oxygen content and hydrocarbon gas content before any permits are issued and entering is allowed?

A : 21% oxygen by volume and 0% hydrocarbon of LEL.



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

RONJ : Where a fixed fire detection system does not include means of remotely identifying each detector individually, detectors are grouped in "sections". These sections may cover up to:

A : 50 enclosed spaces

RONJ : Where a fixed fire detection system does not include means of remotely identifying each detectors individually, detectors are grouped in "sections". These sections may cover up to:

A : 50 enclosed spaces

ROQU : How often is the performance check of a Voyage Data Recorder by a competent person required under SOLAS?

A : - Annually.

ROSD : Which item among those below is included in the normal equipment of every liferaft ?

A : instructions on how to survive

ROVT : Where can a ship expect piracy to take place?

A : All over the world

ROWG : Why should a surveyor be in attendance when discharging steel rebars?

A : In case cargo is found damaged during cargo discharge operations

ROWG : Why should a surveyor be in attendance when discharging steel rebars from a General Cargo Vessel?

A : In case cargo is found damaged during cargo discharge operations

RPAP : When considering how to deal with cargo residues during hatch cleaning at sea on a Bulk Carrier, what is the most careful consideration?

A : Consult MARPOL handbook and the vessels Safety Management System (SMS) for guidance

RPBC : In terms of food temperature, what is considered to be the "danger zone" at which bacteria can flourish?

A : Between 5 and 63 degrees Celsius.

RPBK : What action must the Master take if 3(or more) crew members complain about the food

A : He must instigate an investigation. He must inform the complainants of his findings and make recommendations as may be necessary

RPHF : What is the meaning of the expression dead-band

A : The controller will not react on a process change in a specific range



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

RPHF : What is the meaning of the expression dead-band?

A : The controller will not react on a process change in a specific range

RPIE : Why is it important that the combustion chamber of a boiler is properly ventilated prior to ignition?

A : To avoid an explosion in case of oil have been leaking into the boiler furnace.

RPIG : What is name of the machine shown, used to heave on the ropes during mooring and unmooring?

A : He is to notify the Chief Officer

RPJS : It is considered a help to have a written working-plan for cleaning personnel. Why?

A : To know specifically where to clean every day/week/month.

RPLM : Which of the following cargoes can solidify?

A : Latex?

RPME : According to ISGOTT, which of the following indicates the approximate density ratio of undiluted gas, in relation to air, from a typical crude oil?

A : 1.5 times that of the air.

RPRV : Which of the given options characterizes a 2-stroke diesel engine ?

A : A 2 stroke engine completes a full cycle every revolution.

RPSC : The word SHIP is spelled conform the international phonetic alphabet:

A : Sierra, Hotel, India, Papa

RPUA : Which of following items shall be included in an abandon ship drill?

A : ensuring that passengers and crew are made aware of the order to abandon ship

RPUT : Too low oil flow in the fuel oil purifier oil outlet line is caused by:

A : Broken water seal.

RQDA : When should the Second Officer call the Master?

A : When anything unusual happens, and 30 minutes before the pilot station



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

RQDD : The main engine is running steady with an average exhaust gas temperature of approximately 350° C. What would be a typical alarm/slow down setting for the cylinder exhaust gas temperature deviation from the average?

A : +/- 50° C

RQDD : The main engine is running steady with exhaust gas temperature approximately 350° C. What is the normal slow down temperature for exhaust gas deviation from average?

A : +/- 50° C

RQDE : wire antenna of 12 metres long is probably:

A : a MF/HF-antenna

RQEJ : What are the properties of IMDG Class 4 (Flammable Solids) cargoes?

A : These cargoes are liable to spontaneous combustion or when in contact with water emit flammable gases

RQEJ : Which of the following statements is incorrect with regard to IMDG Class 4 cargoes?

A : The goods require protection against movement

RQFM : In general, under which value is it necessary to lower oxygen content in order to put out a "class B" fire?

A : O₂ < 12%

RQJY : A new joint is required for a sea water pipe flange and there are no ready made spares. What is the best method for making a new joint from a sheet of rubber insertion?

A : Measure the flange diameter, PCD and bore using a ruler and callipers and then mark out the jointing. Use jointing scissors and hole punches to cut the new joint.

RQKL : In which part of the oceans and in what season is Parametric Rolling likely to be experienced?

A : North Pacific winter

RQKL : What is understood by the term "Parametric Rolling" as applied to Container ships?

A : The occurrence of large unstable roll motion suddenly occurring in head or stern seas.

RQKV : For the VHF-antenna connection is used:

A : a 50 Ohm resistance coax cable

RQRK : Can you use a common Vapor line for Sulphuric acid and Nitric acid ?

A : No, they are not compatible.



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

RQVE : On a General Cargo Vessel, what must be ensured when using ships cargo gear in hot climates?

A : That grease from wire falls does not fall onto cargoes being loaded or discharged

RQVE : What must be ensured when using ship's cargo gear in hot climates?

A : That grease from wire falls does not fall onto cargoes being loaded or discharged

RRDW : What should be done immediately after discharging is completed?

A : Inspect ro-ro decks. Wipe up spill such as oil or water from the deck and clear up lashing equipment

RREN : Give the meaning of the following symbol:

A : evacuation slide

RRHX : In what way can de-humidified air be made more efficient for the drying of cargo tanks?

A : By heating it.

RRHX : In what way can de-humidified air be made more efficient for the drying of cargo tanks on a chemical tanker?

A : By heating it.

RRJR : What shall a rescue person use if he has to jump into the water in order to assist a survivor?

A : Survival suit and lifeline

RRKH : Loading of a palletised cargo onto a conventional reefer vessel is almost complete. The final pallets are to be loaded into the hatch square pre-slung. Which of the options is the main reason for loading these final pallets pre-slung?

A : To allow a quick start to cargo discharge without damaging any of the cargo.

RRLK : On the figure 4 possible definitions of the term "ABEAM" are shown. Which one is the correct one?

A : Abeam is defined as A on the figure

RRRD : The fire control draft on board is called the «safety plan» and shall be posted onboard. In port, a copy of this plan shall in addition be available from somewhere else. Where shall this copy be available?

A : At the gangway.

RRRG : What is a contingency plan for ships?

A : Plan for safety preparedness



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

RRRL : What must be completed before the commencement of any transfer operation on an oil tanker?

A : The Safety Checklist or Declaration of Inspection.

RRWD : Which method of oil cleanup is NOT usually allowed?

A : Using sinking agents

RRXF : Prior to loading a reefer cargo it is good practise to carry out an ice test of the temperature sensors within the cargo space. Part of the test is to immerse the sensors in a test bucket of known temperature, usually zero degrees Celsius as this is the melting point of ice. Which of the options is correct in relation to preparing the test bucket?

A : Insulated ice buckets should be filled with ice cubes approximately 2 centimetres square and a small quantity of distilled water to produce an ice-water mixture. The ice cubes should be produced

RRYQ : Is it necessary to have a visual and audible signal if an automatic sprinkler begins to work?

A : Yes

RSBQ : On a conventional reefer vessel the tween decks and lower hold are provided with scuppers leading into the hold bilges. The scuppers normally designed with a U-bend or non-return bend. Complete the following statement from the options given. "Prior to loading a cargo of hard frozen products the U-bend should be"...

A : ...filled with brine.

RSCK : When Ro-Ro cargo is damaged what should be noted down immediately?

A : The time, date and location of occurrence and details of the damage

RSDC : A star-delta starter exhibits which of the following characteristics while connected in star

A : Reduced current and reduced torque

RSDC : When starting three phase induction motors there is sometimes a need to use a star-delta starter. A star-delta starter exhibits which of the following characteristics while connected in star.

A : Reduced current and reduced torque

RSDC : When starting three phase induction motors there is sometimes a need to use a star-delta starter. A star-delta starter exhibits which of the following characteristics while connected in star.

A : Reduced current and reduced torque

RSEX : Why should ro-ro units with small overhead clearances be driven at very slow speed?

A : To prevent contact with a deckhead or overhead obstruction

RSFL : You are starting to get low on water in the lifeboat. What should you do?

A : Collect rain water



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

RSHB : What is the general regulation for pumping over board washingwater according to Marpol ?

A : The vessel is proceeding at 7 knots or more, is more than 12 miles off land and is in a water depth of 25 metres or more.

RSHO : There are different requirements for the various types of tank used in liquefied gas carrier cargo containment systems. What is the requirement for Independent Tank Type "A"?

A : A primary and complete secondary barrier.

RSHO : What is the requirement to membranes on Independent Tank Type "A"?

A : Complete secondary barrier.

RSJL : You have prepared a tray of cream eclairs, using fresh cream filling. At what temperature must they be stored until required for service?

A : Between 5 and 7 degrees Celsius.

RSOD : What is the name given to the special list of cargo loaded on board a ship that needs to be prepared for reporting and other administrative purposes?

A : Manifest.

RSSX : The temperature control system of the main engine crankshaft bearings indicates high temperature. What would be the correct way to open and check the crankcase?

A : Stop the engine immediately and keep the lube oil pump running for at least 20 minutes before opening the crankcase

RTBP : Which of these statements is correct with regard to the loading of bagged fishmeal?

A : All

RTBP : Which of these statements is incorrect with regard to the loading of bagged fishmeal?

A : The antioxidant should not be less than 650ppm

RTLE : How often shall the inert gas scrubber be flushed with water?

A : After use

RTMY : Sun rays and light reflected from a bright surface (e.g. sea); can cause damage to the skin and eyes. What is this type of burn called?

A : Radiation burns.

RTOK : Who is responsible for implementation of protection and environment work on board?

A : Both master and shipping company.



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

RTOK : Who is responsible for implementation of working environment work on board?

A : Both master and shipping company.

RTPF : What will you do if you are told to operate unknown mechanical equipment?

A : Ask your superior for advise before attempting to operate it.

RTQE : Which activity will have the greatest fire-fighting effect in case of a fire?

A : Extinguishing attempt is started immediately

RTTQ : If the OOW must leave the voyage plan, he should?

A : Inform the master

RTXB : A 5V dc source has an internal impedance of 0.2 ohms. When a load of 2.3 ohms is applied what voltage will be measured at the source terminals?

A : 4.6 V

RTXM : Which regulations apply to bulk carriers carrying products that contain oil?

A : MARPOL 73/78

RTYO : Medium and high speed diesel engines used for electrical generation duties on board ship have overspeed protection devices fitted to protect the engine in case the electrical generator trips while carrying high loads. Why are these devices necessary?

A : To stop the engine before any serious damage occurs due to excess inertial loads.

RUBV : Why are all passenger ships divided into vertical 'zones'?

A : Vertical zones are fire zones which can be divided from each other with fire doors. In case of fire, all fire doors in front and aft of the fire will be closed to prevent spreading of smoke/fi

RUEJ : After cleaning and back in service, You observe that the heat transfer is bad. What is the first thing to do?

A : Check for proper air vent of the exchanger.

RUIG : When starting up an aerobic type sewage unit for the first time, or after manual cleaning, how should the bacterial process be initiated?

A : By adding an activating agent to the inflowing sewage.

RUKA : Which one of the listed requirements regarding rescue boat equipment do not correspond to present regulations? The normal equipment of every rescue boat shall include:

A : immersion suits for the number of persons the boat is permitted to accommodate



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

RUPS : LPG carriers often have a booster pump in the cargo system. What is the main purpose of the booster pump on an LPG carrier?

A : The main purpose of booster pump is to increase discharge pressure normally available from the cargo pump.

RUPS : What purpose has the discharge booster pump on a gas tanker?

A : The main purpose of booster pumps is to increase the manifold pressure.

RUQY : VHF channel 6 is:

A : Inter-ship channel

RUTJ : Too low oil flow in the fuel oil separator (ALCAP) oil outlet line is caused by:

A : Bowl opens unintentionally during operation.

RUUF : What must be done after completion of ballasting operations on a bulk carrier?

A : All valves closed, tank ventilators in open position and sounding pipe caps replaced.

RUXQ : If the strength of the wind is related to the pressure gradient and the space between the isobars, which of the following statements is correct?

A : The closer the isobars are together the stronger will be the predicted wind.

RUYL : After smoking cigarettes they should be disposed of as follows:

A : Disposed of in an ashtray and ensuring that it is extinguished.

RVAV : Which emission class is used in the NAVTEX system

A : F1B

RVBJ : What is the minimum information to be given on a dangerous goods declaration on a General Cargo Vessel?

A : IMO Class, UN Number, Gross weight, number of units of cargo, Proper Shipping Name

RVBW : In a closed room with freon leakage, you have to do some work that requires the use of open flame. Can this be dangerous?

A : Yes, freon reacts with open flame to a poisonous gas (Fosgen).

RVCD : On a conventional reefer vessel carrying palletised cargo, dunnage bags (air bags) are used to prevent the pallets from moving during bad weather. Assuming that the air bags are correctly positioned and inflated, select, from the options given, the other important function provided by these bags

A : They will prevent short circuiting of the cold air.



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

RVDQ : How can you avoid and/or reduce potential panic among passengers, if an emergency situation occurs?

A : Inform passengers at frequent intervals over the public announcement system about the situation and how they shall act. Use as many of the ships officers and crew among the passengers to assist

RVED : What is the general requirement for closing mechanisms for in- and outlets of all ventilation systems (ships other than passenger ships carrying more than 36 passengers)? (SOLAS II-2/16.9)

A : Closing must be possible from outside the spaces being ventilated

RVED : What is the general requirement for closing mechanisms for intakes and outlets of all ventilation systems (ships other than passenger ships carrying more than 36 passengers)? (SOLAS II-2/16.9)

A : Closing must be possible from outside the spaces being ventilated

RVGU : Give the meaning of the following symbol

A : Start engine

RVHM : On the figure 4 possible definitions of the term "FORWARD" are given. Which one is the correct one?

A : Forward is given by C on the figure

RVJI : How many two-way VHF radiotelephone apparatus shall be provided on board a passenger ship of 500 gross tonnage and upwards?

A : 3

RVMP : A new joint is needed for a steam condensate drain line. What is the most suitable jointing material to use?

A : Plain fibre jointing

RVTQ : An unconscious casualty who is breathing, should be placed

A : In the recovery position

RVYE : What do you understand by the term Long Travelling?

A : Making the complete crane move fore and aft.

RVYJ : What is a contingency plan for ships?

A : Plan for safety preparedness

RWGF : A vessel is scheduled to enter a SECA during a forthcoming voyage? What additional considerations must a Chief Engineer take into account when planning for this voyage?

A : The availability of low sulphur fuel and the change over time required to ensure the system is clear of normal fuel prior to entry into the SECA.



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

RWGN : The cost for a telephone conversation via the Inmarsat-A system are calculated:

A : per minute or parts of it

RWGX : Why is it so important to shut off the source of fuel before extinguishing the flames on a gas fire?

A : To prevent forming a potential flammable gas cloud

RWKT : Are there any exceptions from OPA-90

A : Yes, transit passage through US waters to a non US port

RWMI : What should be done immediately if during the voyage the temperature of bulk coal exceeds 55°C?

A : Seal the hold completely and monitor the cargo using suitable instruments

RWUV : What is advisable for a person entering a padlocked refrigerated room?

A : He should take the padlock inside the room.

RWUV : What is advisable for a person entering a padlocked, refrigerated room?

A : He should take the padlock inside the room.

RWVS : What is the meaning of this symbol ?

A : Radar transponder

RWWQ :What is the recommended back pressure for a lub oil separator

A : It depends on the installation

RWYP : On a RoRo vessel, what should be done when flammable vapours are detected in a cargo hold?

A : Run the hold ventilation in 'exhaust mode inform the master and then investigate as directed

RWYP : What should be done when flammable vapours are detected in a cargo hold?

A : Run the hold ventilation in 'exhaust' mode

RXCL : What will you do if you are helmsman and the OOW (officer on watch) gives you the order: "Starboard ten"

A : Put the rudder 10 degrees to starboard



RXFR : Give the meaning of the following symbol:

A : liferaft

RXKT : All passenger ships are divided into vertical 'zones'. What is the purpose of this?

A : This is firezones which can be divided from eachother with firedoors. If a fire start in one zone, all firedoors in front and aft of the fire will be closed from the bridge to stop the smoke and fire from spreading.

RXNK : What arrangement may be installed in passenger ships to reduce unsymmetrical flooding in damaged condition?

A : Cross flooding arrangement

RXOA : On board passenger ships an abandon ship drill must be performed

A : every week

RXOA : On board passenger ships an abandon ship drill must be performed:

A : every week

RXOP : What name is applied to foods (in particular meat) that have been prepared according to the rules of Islam?

A : Halal.

RXQN : The effective stability of a tug, when assisting a vessel to manoeuvre, can be decreased by hydrodynamic interaction with the ship it is assisting. Where is the most dangerous position of the tug relative to the ship, for this adverse affect to be found?

A : The most dangerous position is where the tug approaches the bow rounding the forward shoulder of the larger vessel.

RXQR : Why should there be checklists or work permits for hazardous operations?

A : To make sure the job is done under controlled conditions

RXQY : The thermal conductance capability is expressed by a materials thermal conductance number and states the heat quantity. What is the denomination for heat quantity?

A : Watts.

RXRE : The rudder is in the hard over position with the propeller stopped and the ship turning slowly. On a ship with a single fixed pitch right handed propeller and no thrusters, what can be done to make the ship increase the speed of turn without significantly increasing the forward speed of the ship?

A : Give a kick ahead

RXRM : How would you clean ceramic tiles floors in the galley, pantry and store rooms?

A : First wash and then rinse with fresh water from hose.



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

RXRO : What is the purpose of the radiotelephony two tone alarm?

A : Activate bridge watchkeeping receivers and attract the attention of the person on watch.

RXRQ : When a pollution incident occurs there is a plan for actions to be undertaken. State which of following priority sequences to be considered:

A : Stop pumps - report - clean up?

RXTB : Which item among those below is included in the normal equipment of every liferaft ?

A : one buoyant rescue quoit, attached to not less than 30m of buoyant line

RXTW : Why do we use nickel-alloyed steel, stainless steel or aluminium in cargo tank construction on gas carriers designed for LNG and LEG?

A : Because these metals have a very low thermal expansion coefficient and do not burst of extreme low temperatures

RXWG : The timing of the engine is delayed. The exhaust temperatures are high. How would you expect this to affect the turbocharger?

A : Increased turbocharger revolutions.

RYDF : Inert gas should be supplied with an oxygen content of less than:

A : 5 %

RYEG : An accumulation test may be necessary for a steam boiler following repairs or modifications. Which of the given options does the accumulation test check?

A : The capacity of the safety valve to relieve pressure.

RYJV : What is the correct lifting technique?

A : Legs bent, back straight, using leg muscles to lift

RYML : If you are alone and you see smoke coming from a closed cabin door. What should you do first?

A : Activate the nearest fire alarm button and advise bridge of the location of the fire

RYMM : Which of the following requirements regarding on board stability data corresponds to present regulations? (NSCL 4/12.1)

A : A calculation example showing the use of "KG" limitation curves.

RYNA : Which item among those below is included in the normal equipment of every lifeboat ?

A : a searchlight which can work continuously for not less than 3hours



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

RYOR : We have a problem with surging in the turbocharger. Which of the following could be the cause?

A : Dirty scavenging air cooler on the air side

RYOX : Which media are used to receive MSI?

A : All of these.

RYSE : As per SOLAS a fast rescue boats shall be capable of:

A : Manoeuvring for at least 4 hrs at a speed of 20 knots in calm water

RYUT : A VHF transmission range is mainly determined by:

A : the height of the aerial

RYVK : Give clear, direct instructions in an emergency, and show passengers exactly what they need to do. What is the most important reason for doing this?

A : 75% of passengers are confused, and feel helpless.

RYWE : Which of the following detailed explanations should be mentioned in the Training Manual ?

A : The use of all survival equipment

RYYR : What is the primary cause of fatigue damage to the hull girder?

A : The number of repeated stress cycles

RYYY : A floating liferaft is capable of withstanding repeated jumps on to it from a height of at least:

A : 4,50 m

SAGM : After smoking, cigarettes should be disposed off as follows:

A : Disposed of in an ashtray, ensuring that it is extinguished

SAGQ : The ideal aerial length depends on:

A : the frequency chosen

SAHK : From where on board can you find out the different types of protection equipment regarding where placed, how much, how many ans.?

A : The ship's safety plan



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

SAHK : From where on board can you find out the different types of protection equipment regarding where placed, how much, how many etc.?

A : The ship's safety plan

SAHL : On the figure 4 possible definitions of the term "STERN LINE" are given. Which one is the correct one?

A : Stern line is given by A on the figure

SAHM : Why is it so important to suck back as much freon liquid as possible from the evaporators, before You stop the compressor?

A : To avoid liquid coming back to the compressor during start up.

SAHN : What is the meaning of the term purification?

A : Separation of two insoluble liquids with different densities, and the removal of solids in the same process.

SAHN : What is the meaning of the term purification?

A : Separation of two insoluble liquids with different densities, and at the same time removing of solids.

SAMO : Is a repairman not comprised by the specification of crew under obligation to public supervision of maritime service?

A : Yes, if engaged by the owner.

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A : Yes, if engaged by the owner.

SAOD : The usual range of a VHF radio-set from ship to ship at sea is:

A : 20 Nautical Miles

SAPX : Who are to pay the expenses in connection with public supervision of maritime service?

A : The employer.

SAWX : During dry lay up of a main water tube boiler it is necessary to maintain dry, low humidity environment in the water spaces. Which of the chemicals given in the options would best achieve this condition?

A : Silica gel.

SBBT : If inspection or repair of the boiler is due, the plant has to be shut down, and the boiler emptied for water. If time is available, which of the following procedures are correct?

A : The boiler be allowed to cool down by its own after shut down. Then pump the water out.



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

SBCL : Which of the 3 alternatives given is correct for a NOT-gate?

A : Figure 1.

SBCM : Distress MF communications should normally be operated :

A : In J3E mode - on simplex basis

SBGQ : How much time can be saved by use of weather routing?

A : Impossible to say

SBMI : What does STCW deal with?

A : STCW deals with minimum recommendation of education for seafarers and minimum standards for training centre and schools

SBPD : At what temperature is it recommended that frozen meat should be stored?

A : -20 degrees Celsius.

SBRY : When should additional lashings on general cargoes be considered?

A : When heavy weather is anticipated for the planned voyage

SBTA : What is the main fixed fire-fighting system on a car deck?

A : Water sprinkling

SBVR : To get proper conversation discipline in maritime radio traffic:

A : only necessary radio conversations are made in a concise and businesslike way

SBVS : You are about to pass another ship in a close situation. What can happen in this situation?

A : Due to suction, the two ships will be sucked together

SBWO : Which of these is not a Cargo Transport Unit under the IMDG Code?

A : Road tank vehicle

SBXE : Which position is the best to stop bleeding from the nose?

A : Sitting on a chair, leaning forward, with two fingers pressing the nose together



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

SBXF : From the options given, select the one which controls the effective delivery stroke of a helix type fuel pump for a diesel engine to increase or decrease the quantity of fuel delivered.

A : The governor

SBXF : From the options given, select the one which controls the effective delivery stroke of a helix type fuel pump for a diesel engine to increase or decrease the quantity of fuel delivered.

A : Rotation of the plunger by the fuel rack from the governor signal.

SBXY : What does this crane signal indicate?

A : Swing the load in the direction of the signal man's face

SBYT : Which one of the listed requirements regarding equipment for inflatable liferafts do not correspond to present regulations? The inflatable liferaft shall be fitted with:

A : a buoyant lifeline bucketed around the outside of the liferaft

SCBL : According to the IMDG code which class of materials can have an extra number on the label to indicate its incompatibility with another material of its class?

A : Class1

SCCH : What is the validity of a de-ratting certificate

A : Every 6 months

SCDY : One is sailing on inshore waters with poor visibility and with the use of radar. There must be a continuous watch on VHF-channel:

A : 13

SCHM : A large post Panamax container vessel is sailing during the winter months. In which sea areas is she most likely to encounter conditions which could cause a parametric roll?

A : The North Pacific.

SCJM : How might a leak from a cargo tank on an oil tanker be readily detected during the voyage?

A : By regularly monitoring void and ballast spaces, such as by testing them for hydrocarbon content and sounding them.

SCJU : Indicate the correct name for the part marked on the sketch:

A : Turbocharger

SCPN : 1 GHz is equivalent to :

A : 1000 000 000 Hz



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

SCQR : In order to achieve a greater effectiveness when using a permanent system of extinction with gases (for example CO₂), we must...

A : Activate the alarm, evacuate the area and seal the place, then activate the extinction system

SCRH : Why should cargo holds be swept completely prior to washing?

A : So that cargo residues will not clog the bilge lines and associated suctions and valves

SCRH : Why should cargo holds be swept completely prior to washing on a bulk carrier?

A : So that cargo residues will not clog the bilge lines and associated suctions and valves

SCUE : At what specific point during the dry docking of a vessel, does the effective loss of internal stability stop decreasing?

A : When the water drops below the keel.

SCUE : When will the Longitudinal Bending Moments caused by the cargo distribution need to be taken into account on an oil tanker?

A : During loading, discharging and on loaded passage

SCUT : Where do you find regulations concerning washing of crockery and cutlery?

A : The regulations are a part of the Norwegian Ship Control Legislation regulations, concerning production and serving of foodstuffs.

SCXB : You are on night time duty as navigating officer on a ship under way, when a fire in the crews accommodation is reported. What is the first action you would take?

A : Sound the fire alarm signal

SDDX : A faulty steam trap on a fuel oil heater can cause

A : Reduced heat capacity of the heater

SDGI : What is the purpose of an evacuation analysis?

A : To identify and eliminate, as far as practicable, congestion which may develop during an abandonment

SDOU : Two lines sent out and pretensioned equally have the same length, same breaking strength and same directional load. However, one is made of wire (which has a full load elastic elongation of about 1.5 % of its length) and the other made of nylon (which has a full load elongation of about 30 % of its length). If a sudden gust of wind increases the load on the lines, this increased load will be shared as follows:

A : Wire takes 95 % of the extra load. Rope takes 5 % of the extra load

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A : Wire takes 95 % of the extra load. Rope takes 5 % of the extra load



SDPN : Which international convention deals with fire-fighting equipment etc.

A : SOLAS

SDPO : If you are ordering chain for use as Chain Stoppers on mooring wires, the length of chain usually recommended for use in each stopper is:

A : 3.5 to 4.5 mtrs.

SDSA : What does the abbreviation ABC mean in first aid?

A : Air, Breathing, Circulation.

SDUS : How many Radar Transponders (SART) are required to be carried onboard a ship for use in survival crafts?

A : 2 on new-builds only. Old ships have to comply by August -95

SDYS : The word LOBITH is spelled conform the international phonetic alphabet:

A : Lima, Oscar, Bravo, India, Tango, Hotel

SEAP : Emergency instructions in appropriate languages shall be posted in passenger cabins. Which information shall as a minimum be included in the emergency instructions?

A : The method of donning life-jackets, escape routes and alarm signals

SEAP : What is a Marine Evacuation System?

A : Evacuation Chute(s)/Slide(s) and Liferrafts

SEBC : The "small diameter line" on a crude oil carrier goes from the pumproom to

A : The shore-side of the cargo manifold valves, port and starboard side

SEBU : On a Container vessel, where should containers containing marine pollutants be stowed?

A : Under-deck

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A : Under-deck

SEDA : What is the correct understanding of the tem "Angle of Loll" when applied to ships stability?

A : The angle the ship will lie when the ship has a negative GM



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

SEIV : How often shall crew members participate in fire drills?

A : Once every month

SELB : What is the name of the line which is used to strip the last amounts of cargo ashore?

A : Small diameter line.

SELD : During a routine check of one of the auxiliary engines in an UMS operated engine room, a minor leakage on a high pressure fuel pipe is observed. What would be the appropriate action and/or precaution to be taken? (Assume normal operation; 2 gen sets operating and 1 on standby)

A : Inform the Chief Engineer and the Bridge. Change over to manual mode, switch over

SELD : During a routine check of one of the auxiliary engines in an UMS operated engine room, a minor leakage on a high pressure fuel pipe is observed. What would be the appropriate action and/or precaution to be taken? (Assume normal operation; 2 gen sets operating and 1 on standby)

A : Change operation to the third generator set, preparing the original set for repair of the failure and switching to manual mode until repair is carried out.

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A : Inform the Chief Engineer and the Bridge. Change over to manual mode, switch over

SEKQ : Which item among those below is included in the normal equipment of every rescue boat ?

A : one waterproof electric torch suitable for Morse signalling

SERD : A person wearing an anti-exposure suit shall be able to:

A : perform all duties associated with abandonment, assist others and operate a rescue boat

SEYS : What is the meaning of the term Clarification?

A : Separation of solid contaminants from a liquid.

SFCC : With which particular form of food poisoning are cream-filled confectionary items particularly associated?

A : Staphylococcal enterotoxin

SFEI : What kind of cargo pumps is most common in gas ships?

A : Submerged or deep well, electric centrifugal cargo pumps.



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

SFEI : Which kind of cargo pumps are the most commonly used in cargo systems for gas carriers?

A : Submerged electric motor pumps.

SFEI : Which kind of cargo pumps are the most commonly used in cargo systems for LNG carriers?

A : Submerged electric motor pumps.

SFGC : Which item among those below is included in the normal equipment of every liferaft ?

A : one daylight signalling mirror with instructions

SFGF : This circuit shown is a logic gate with two high input signals, A and B, and one output signal Q. Which type of logic function does the gate provide?

A : OR gate

SFIO : What is a proportional band

A : 100/amplification

SFPG : How often shall drills for the operation of watertight doors, side scuttles, valves and closing mechanism of scuppers, ash-chutes and rubbish chutes take place in passenger ships?

A : Weekly

SFRY : Before loading a refrigerated cargo of LPG the cargo tanks must be cooled down slowly in order to minimise thermal stresses for the vessel and the cargo containment system. What is the generally accepted cooling down rate?

A : 10 degrees C per hour.

SFRY : Before loading a refrigerated cargo, ships tanks must be cooled down slowly in order to minimise the thermal stresses. The rate, at which a cargo tank can be cooled, without creating high thermal stress, depends on the design of the containment system. What is the normal cooling down rate?

A : 10 degrees C per hour.

SGAF : Which of the following statements is incorrect with regard to preparing the cargo holds for receiving bagged cargoes?

A : Dunnage is not required

SGBA : The IMO Standard Marine Communication Phrases are recommended to be used when the ships Officer is verbally talking to whom?

A : He wants the OS to train as helmsman today, because they are sailing in open waters and there is not much traffic in the area

SGBB : Which fire-fighting equipment is most efficient and with least side effects in case of a large fire in the engine room?

A : Central gas extinguishing system and/or waterfog.



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

SGDP : Refrigerated cargo spaces are fitted with temperature sensors and in some cases carbon dioxide sensors. From the options given select the one which best completes the following statement. Monitoring the carbon dioxide content in a cargo space loaded with fruit can be useful because...

A : ... increasing levels indicate that the fruit may be starting to ripen.

SGIK : The freeboard of a lifeboat, measured from the waterline to the lowest opening through which the lifeboat may become flooded:

A : should exceed 1,5 % of the lifeboat length when loaded with 50 % of the number of persons the lifeboat is permitted to accommodate, these persons being seated to one side of the centreline

SGNS : How many portions of fruit and vegetables are recommended as part of the daily intake for an adult?

A : 5.

SGPK : A safety valve is sufficient to prevent a BLEVE.

A : Wrong, if the valve is wrongly set

SGQX : Some of the cargoes carried onboard liquefied gas carriers are classed as saturated hydrocarbons. What are the features of the common saturated hydrocarbon cargoes (e.g. propane and butane) that are carried on these vessels?

A : As liquids they are colourless, odourless and are chemically non-reactive.

SGQX : What is a saturated hydrocarbon?

A : Saturated hydrocarbons are colourless and odourless liquids and they are chemically non-reactive.

SGTL : When a vessel is moving in shallow water it will experience an effect known as "Squat". Which of the following statements most accurately specify the results of squat on the vessel?

A : There will be a reduction of the vessels underkeel clearance and a possible change of trim.

SGTW : What should you know about the emergency stops on deck?

A : Where they are located and how to operate them.

SGVK : On a RoRo vessel, what should be used to secure cars with aluminium tyre rims?

A : A car sling

SGVK : What should be used to secure cars with aluminium tyre rims?

A : A car sling

SGWS : Which of the following booklets would you consult to determine the number of persons required on duty while loading leaded gasoline on your tanker?

A : Oil Transfer Procedures Manual



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

SGXM : What is minimum equipment needed for entering a tank or void space that is not gas free or does not contain sufficient oxygen?

A : Self contained breathing apparatus in addition to normal safety equipment.

SGYD : On a pure car carrier what danger is associated with deck-head piping in cargo spaces?

A : Moisture dripping onto vehicles stowed directly below

SGYD : On a pure RoRo car carrier, what danger is associated with deck-head piping in cargo spaces?

A : Moisture dripping onto vehicles stowed directly below

SGYI : Which one of the listed requirements regarding immersion suits do not correspond to present regulations? The immersion suit shall be made of waterproof materials and constructed such that:

A : it will have sufficient built in buoyancy to avoid the use of a lifejacket

SGYJ : Which one of the listed requirements regarding enclosures of totally enclosed lifeboats do not correspond to present regulation? The enclosures shall be provided with:

A : windows on both sides which can be closed watertight and opened for ventilation

SGYN : The HP discharge valves of a 2 stage air compressor suffer from build up of carbon deposits even though the correct maintenance is carried out on them. What is the most likely cause of this problem?

A : Worn scrapper and piston rings.

SHAI : Gases, including methane, cannot normally be liquefied using pressure alone once they are at or above a certain temperature. What is the term used for this temperature?

A : Critical temperature.

SHDI : In case of pollution in US waters, do you always have to notify the National Response Center (OPA-90)

A : Yes, within thirty (30) minutes

SHEL : What is the meaning of this symbol ?

A : Muster station

SHFF : Which one of the listed fire-extinguishing medium is most effective against an open oil fire?

A : Foam.

SHGJ : Which of the following is a form of food poisoning?

A : Salmonella.



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

SHHQ : How is the need for wearing personal protective equipment determined

A : By carrying out a risk assessment

SHHR : Training is required when new equipment is installed on board the ship. What kind of training should be provided and for whom?

A : Theoretical and practical training should be provided for all personell involved in operation of the new equipment

SHNN : What is the minimum number of "international shore connections" that should be provided on vessels of 500 gross tonnage and upwards?

A : 1

SHRK : What name is applied to foods (in particular meat) that has been prepared according to the rules of Islam?

A : Halal.

SHRK : What name is applied to foods (in particular meat) that have been prepared according to the rules of Islam?

A : Halal.

SHRK : What name is applied to foods that have been prepared according to Jewish law?

A : Kosher.

SHRS : Instructions for onboard maintenance of life-saving appliances shall be easily understood and illustrated wherever possible. Which of the following items do not necessarily have to be included in the instructions according to present regulations?

A : Check list for periodic inspections

SHSH : Identify this symbol:

A : Emergency fire pump?

SHSJ : You are the officer of the watch at the bridge of a cargo ship. In the middle of the night, an alarm sounds on the control panel of the fire detection system. It indicates that a detector is activated in the crews accommodation. What is the first action you would take?

A : Sound the fire alarm signal and send the seaman on watch down to inspect and report the situation

SHWX : The recommended distance between parallel tracks (track spacing) in a search for a casualty by a surface vessel varies (amongst other factors) according to visibility and the nature of the target in the IAMSAR Manual. These distances are then normally adjusted for prevailing weather conditions. If visibility was 5 nautical miles and you were looking for a six-person liferaft, what would the recommended uncorrected track spacing be?

A : - 3.6 nautical miles.

SHXA : The coil of a 12V, 120mA dc relay must be connected across a 24V supply. What action should be taken?

A : Install a 100 ohm resistor in series with the coil



SIAX : The log-in procedure for an Inmarsat-C installation comprises:

A : the choice of the inmarsat-region

SIEC : Marine steam boilers are protected with a number of safety features which are designed to prevent damage to the boiler due to overheating or overpressure. How is this protection achieved when a very low water level condition (often referred to as low low level) develops during operation?

A : All burners are automatically and immediately shut off.

SIIH : What duties are imposed on an employee in respect to the Health & Safety at Work Regs

A : To take reasonable care of himself and fellow workers and co-operate with any person with any statutory duty imposed upon him in relating to Health & Safety

SIIW : On most ro-ro passenger ships there is no requirement to carry out drills with the passengers. What is the most effective ways of informing embarking passengers about the emergency procedures?

A : Information on boarding cards, public announcement on departure, posters in public areas and cabins, safety video running continuously

SIMK : At what time should lashings be released?

A : Lashings should not be released for unloading before the ship is secured at the berth, without the Masters express permission.

SINL : Give the meaning of the following symbol

A : Survival craft portable radio

SIOB : When an engine is working normally, the lubricating oil return temperatures are moderate and the running temperatures of the moving parts are also moderate. Lubricating oil is not a volatile liquid and the temperature inside the crankcase is insufficiently high to cause concentration of vapor. What would be the flash point of the lubricating oil?

A : 200-240 deg C

SIOB : When an engine is working normally, the lubricating oil return temperatures are moderate and the running temperatures of the moving parts are also moderate. Lubricating oil is not a volatile liquid and the temperature inside the crankcase is insufficiently high to cause concentration of vapor. What would be the flash point of the lubricating oil?

A : Above 200 deg C

SIOB : When an engine is working normally, the temperature of the lube oil return and of the moving parts are moderate. Lubricating oil is not a volatile liquid and the temperature inside the crankcase is not high enough to cause concentration of vapor. What would be the flash point of the lubricating oil?

A : 200-240 deg C

SIOB : When an engine is working normally, the temperature of the lube oil return and of the moving parts are moderate. Lubricating oil is not a volatile liquid and the temperature inside the crankcase is not high enough to cause concentration of vapor. What would be the flash point of the lubricating oil?

A : Above 200 deg C

SIPX : An electric motor is to be aligned to a pump by insuring shims under the motor feet. Which of the tools given in the options would be used to check that the alignment is correct by measurement of the gap between the coupling faces?

A : A set of feeler gauges.



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

SIUA : The vessel will anchor with Pilot onboard. You are the duty officer on bridge. What is your main duty?

A : Check the position only

SIWL : Regular 'updating' of a vessel's position in an Inmarsat-C installation is among others things important:

A : to guarantee reception of NAVTEX-reports

SIXI : On which frequency a ship must maintain a continuous watch when sailing in area A2?

A : 2187,5 kHz

SJHN : If a trunk type engine has been running for 24 hour without lub oil separator in operation; when restarting the separator what must be the time between discharges to be set

A : 5 minutes

SJIH : What is the first action that should be taken by the rating on boiler watch in the event of a flame failure on the boiler?

A : call the engineer on watch

SJIJ : Give the meaning of the following symbol

A : Survival craft distress pyrotechnic signals

SJIK : Debriefing of an emergency drill:

A : expands the experience of all personnel

SJIR : Why is it important to remove all traces of salt after washing the cargo holds?

A : Because salt encourages the corrosion of steelwork

SJIR : Why is it important to remove all traces of salt after washing the cargo holds of a bulk carrier?

A : Because salt encourages the corrosion of steelwork

SJKT : When mustered to an abandon ship drill, what is the first thing you do when entering the muster station?

A : Pick up a life jacket

SJKT : When mustered to an abandon ship drill, what is the first thing you do when entering the muster station?

A : Put on a life jacket



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

SJLS : For which of the workshop machinery listed below, can it be considered as safe not to wear protective goggles when operating?

A : None of the alternatives.

SJLU : When an overhaul is completed and the compressor is going to be started for a test run, it is important that we:

A : check that we have an open discharge line all the way to the pressure bottle.

SJOB : What is the requirements to ventilation ducts of more than 2 metres in length (ships other than passenger ships carrying more than 36 passengers)?
(S O L A S 11 -
2 / 1 6 . 1)

A : They must be fabricated of non-combustible material

SJOG : What is the proper term used to describe a coast radio station that primarily handles chargeable ship-to-shore message traffic of a routine nature?

A : Public Correspondence Station.

SJTA : Give the meaning of the following symbole:

A : lifebuoy with light

SJUT : What is the meaning of this symbol ?

A : Lifeboat

SJVS : What must be checked before deck cargo is loaded on top of hatch covers on a General Cargo vessel?

A : The hatch covers must be fully secured to a sea going condition

SJXD : The International Maritime Bureau Piracy Reporting Centre attributes the increased numbers of hijackings to:

A : The greater involvement in piracy of well-organized and armed crime networks.

SKBO : Your vessel has been involved in a collision, and at first opportunity a lot of people from outside parties are asking questions. What shall you tell them?

A : Do not reply to any questions from outside parties, except the Solicitor appointed by your company.

SKCK : The Muster List shall show the duties assigned to members of the crew. Which of the following duties shall be included according to present regulations?

A : Preparation of survival crafts Emergency Position Indicating Radio Beacons (EPIRRB).

SKCL : On which frequency are navigational and meteorological messages normally sent on the NAVTEX system?

A : 518KHZ



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

SKDI : During operation of the main engine, the heat absorbed by lubricating oil is removed by the:

A : Lube oil cooler

SKFS : What shall be done with food that is not eaten?

A : It shall be properly stored and prepared for another meal.

SKFX : Which of the following are frequent causes of fires in accommodation?

A : All of the alternatives

SKGN : In which cases shall sidescuttles in passenger ships be so constructed that they cannot be opened without the consent of the master of the ship?

A : Where the sills of the sidescuttles are below the margin line

SKHD : The water cooling space on the turbocharger is damaged and you have no spares. The cooling water must be closed. Which steps would you take to ensure least possible damage?

A : Dismantle the rotor and assemble the sealing plate.

SKKP : What is the main effect on lubricating oil of operating for long periods at excessively high temperature?

A : It will cause the oil to oxidise, increasing the viscosity.

SKKP : What is the main effect on lubricating oil of operating for long periods at excessively high temperature?

A : Cause oxidation which increase viscosity.

SKKV : How do we control the cargo tank pressure whilst we are at sea?

A : Whilst at sea we control the cargo tank pressure with the cargo cooling plant.

SKKV : How is the cargo tank pressure of a loaded LPG carrier normally controlled while the vessel is at sea?

A : The vapour is condensed using the cargo cooling plant.

SKLF : What documentation allows a General Cargo Vessel to load dangerous package goods?

A : Document of Compliance for carriage of dangerous goods

SKLS : Which item among those below is included in the normal equipment of every lifeboat ?

A : a survival manual



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

SKPM : To receive distress alerting and MSI via an Inmarsat-C set vessels must have:

A : SES or an EGC receiver

SKWQ : The office phone, fax, telex and after office hours telephone numbers can be found in:

A : The Ships emergency contingency manual

SKYN : A positive displacement type flow meter defective and cannot be repaired. It is to be replaced with a new instrument which uses a Venturi type sensor. Which of the pneumatic relays given in the options will be required in order for this type of instrument to function correctly?

A : Square root extractor relay.

SKYN : A positive displacement type flow meter is defective and cannot be repaired. It is to be replaced with a new instrument which uses a Venturi type sensor. Which of the pneumatic relays given in the options will be required in order for this type of instrument to function correctly?

A : Square root extractor relay.

SKYQ : High level and high-high level alarms must be tested at the tank for proper operation within 24 hours of the start of cargo transfer on a chemical tanker. What acceptable alternative is there to this requirement?

A : That a function test is carried out by means of an automatic self-test and circuit monitoring facility within the alarm system.

SKYQ : High level and high-high level alarms must be tested at the tank for proper operation within 24 hours of the start of cargo transfer. What acceptable alternative is there to this requirement?

A : That a function test is carried out by means of an automatic self-test and circuit monitoring facility within the alarm system.

SLCC : Do you think there is any reduction in the rudder lift force if the propeller is stopped?

A : Yes, the lift force will be dramatically reduced

SLGH : Which ships must be provided with an "international shore connection" ?

A : Any ship of 500 gross tonnage and upwards

SLGL : By "collect call" is meant:

A : a call for account of the receiver

SLGM : On board they want to have a dial-phone call via Inmarsat with the Apollogracht. In the guides the following ID's are found for the Apollogracht: 344320000, 424432010, 424432020, 1300210, 36715. What ID should be chosen:

A : 1300210

SLHF : Before leaving the machinery spaces of a UMS vessel after routine watchkeeping rounds in the evening, the duty engineer inspects the doors to Fuel Oil Treatment rooms covered by a fixed fire fighting installation. For what purpose does he do this?

A : Close them to prevent the spread of fire, and allow the extinguishant to be released without time wasting.



SLHH : Where is OPA-90 applicable

A : Within 200 nm of US waters including Guam, Hawaii, Alaska and San Juan

SLKR : What could be the cause of a refrigeration compressor running continuously even though normal temperatures for the cold rooms have been reached?

A : Low-pressure cut-out is stuck in closed position.

SLKR : What could be the cause of a refrigeration compressor running continuously even though normal temperatures for the cold rooms have been reached?

A : Low-pressure switch is jammed closed

SLKR : What could be the cause of a refrigeration compressor running continuously even though normal temperatures for the cold rooms have been reached?

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SLKR : What could be the cause of a refrigeration compressor running continuously even though normal temperatures for the cold rooms have been reached?

A : Low-pressure switch is jammed closed

SLUB : Where do you find detailed information and specific technical requirements for fire safety systems?

A : Fire Safety Systems Code (FSS Code)

SLXH : Select from the options given the one which best completes the following statement. Reefer vessels, loaded with a homogenous cargo, usually operate with a small GM due to the fact that...

A : ...they are designed with fine lines and the biggest cargo spaces are at the top of the holds.

SLYO : We have two kinds of turbocharging systems: constant pressure and impulse. The difference between these two can be found in:

A : The exhaust gas receiver

SMAY : Which of these covers the rules and regulations for General Average?

A : The York Antwerp rules

SMAY : Which of these covers the rules and regulations for General Average on a Bulk Carrier?

A : The York Antwerp rules

SMAY : Which of these is not an international convention related to the carriage of goods by sea?

A : The York Antwerp rules



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

SMBG : Via Inmarsat-C a message is sent to an Inmarsat-C mailbox with a positive delivery notification (PDN). The ground station will:

A : send a PDN, if the message has arrived in the mailbox

SMBG : Via Inmarsat-C a message is sent to an Inmarsat-C mailbox with a positive delivery notification (PDN). The groundstation will:

A : send a PDN, if the message has arrived in the mailbox

SMFK : What must be the first concern of the fire fighting team leader?

A : Life saving

SMHG : What do we mean with "dual controlled" fuel pumps when we talk about valve controlled fuel pumps?

A : Both the suction and spill valves are controlled

SMKM : What specific publication gives guidance on all safety matters on board a ship?

A : Code of Safe Working Practice for Merchant Seamen (COSWP)

SMMC : During overhaul of a hydraulic pump a large number of small components are removed. Where should these components be kept so that they are not lost and are available when rebuilding the pump?

A : They should be placed in a clean box or tin and covered over.

SMPN : What is the function of the British Consul in relation to a death on board?

A : He is informed by the ship/agent, relays information to the RSS, arranges completion of documentation and may assist with having the deceased returned to home country

SMSC : Which of the following is associated with staphylococcal food poisoning?

A : Food that is not kept properly hot (or cold) as required.

SMSC : Which of the following is associated with staphylococcal food poisoning?

A : Food that is not kept properly hot (or cold) as required.

SMSW : Why is it so important to keep the lub oil viscosity within safe limits?

A : To keep the oil protective film between moving metal surfaces .

SMUI : What is the Masters main responsibility when receiving a distress signal from any source?

A : Proceed at highest speed to the distress source position.



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

SMUN : The lubricating oil on the exhaust side of the turbine blower gets very dirty after only a few hours in service. What can the reason be?

A : Exhaust gas leaking into the oil chamber.

SMWG : Which bulkhead is the most efficient one to fight against fire extension ?

A : Class A bulkhead

SMWG : Which bulkhead is the most efficient to fight against spread of fire?

A : Class A bulkhead

SMXY : On the figure 4 possible definitions of the term "UNDER KEEL CLEARANCE" are given. Which one is the correct one?

A : Under keel clearance is given by C on the figure

SNCC : What is the correct understanding of the term "Lapse Rate" when used in Meteorology?

A : The change of the temperature in the atmosphere with height above sea level.

SNDY : Foodstuffs which have not been cooked or prepared in any way may be described as which of the following?

A : Raw.

SNOK : A cargo of frozen tuna is being loaded onto a conventional reefer vessel. Without using a pulp thermometer, which of the given options would give an indication that the fish was in good condition.

A : The fish would sound like wood when dropped or tapped with a hammer.

SNOL : What kind of safety equipment must be worn during mooring operations?

A : All of the mentioned equipment.

SNOM : How many pyrotechnic signals to be in each lifeboat?

A : 4 Rocket parachute flares / 6 hand flares / 2 buoyant smoke signals

SNQJ : What is the correct understanding of the term "Isobar"?

A : An "Isobar" is a line joining places of equal pressure.

SNUK : Give the meaning of the following symbol:

A : evacuation slide



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

SNVQ : After completion of a cleaning job on some machinery components at sea, the engine watch rating is instructed to dispose of a small amount of dirty diesel oil which is left in a bucket. How should the dirty oil be disposed of.

A : Put it straight into the dirty oil tank for incineration at the next opportunity.

SNWM : A new cylindrical brass bearing sleeve for a pump shaft is found to be a few millimetres too long for the housing and needs to be adjusted to the correct length. Which will be the best method to use to reduce the length of the sleeve to the correct dimension?

A : Remove the excess length using the ship's lathe

SNXO : The high level water ingress alarm in number 1 hold of a Bulk Carrier activates in bad weather at sea; what would be the actions of a prudent Master?

A : Sound general alarm, muster ships crew and transmit a Mayday call and message.

SNXR : In a distress situation and immediately after the distress signal has been sounded, what next action should be taken by the officer on duty ?

A : use the intercom to inform crew and passengers of the reason for the alarm

SOAH : Which class of emission is used for FEC NBDP transmissions ?

A : F1B

SOHA : How often shall liferafts be serviced?

A : At intervals not exceeding 12 months

SOIR : What information is required on passengers prior to departure?

A : All persons on board shall be counted and details of persons who have declared a need for special care or assistance in emergency situations shall be recorded and communicated to the Master

SOKG : After closing the drain during the blowing procedure for a glass water gauge, the water cock is opened and the water flows to the top of the glass. Then the steam cock is opened and the water flows down and out of the glass; Which of the following statements are correct?

A : The water level is between the water cock connection of the boiler, and the bottom of the gauge glass. It is safe to put feed water into the boiler.

SOKH : Who assist the Norwegian Maritime Directorate in the public control of seaworthiness of ships?

A : Maritime investigators, The Telecommunications Administration, the Electrical Inspectorate, and other public institutions, Det norske Veritas and other approved survey institutions, other private institutions of foreign countries, the authorities of foreign countries

SOMW : Who shall attend the pre-arrival conference for the cargo operation ?

A : All officers who takes part in the operation, preferably also the deck hands.

SOON : If a vessel is to carry a heated cargo, what is the procedure prior loading ?

A : Heating coils are to be pressure tested, preferable by the heating medium. Test to be recorded.



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

SOSQ : Why is it essential that all entries in the OLB are correct?

A : It is a public record and is admissible in a UK court of law

SOTB : On a RoRo vessel, why are short lashings better than long lashings for ro-ro units?

A : Because they're easily tightened and tensioned

SOTB : Why are short lashings necessary for ro-ro units?

A : Because they're easily tightened and tensioned

SOWV : Prior to personnel being allowed to work inside cargo tanks on a liquefied gas carrier the tank atmosphere must be checked. What are the required readings for oxygen content and hydrocarbon gas content of the tank atmosphere before normal entry permits are issued and entry into cargo tanks is allowed according to the IMO Gas Codes?

A : 21% oxygen by volume and 0% hydrocarbon of LEL.

SPAG : Which part of the float-free arrangement for inflatable liferafts is made to release the liferaft after being automatically inflated during the ship is sinking?

A : the weak link

SPBB : During mooring operations; which is the safe position to be in?

A : Outside the colored zone.

SPBW : Noise level called "the injurious area" starts at:

A : 100 dB

SPCV : A conventional reefer vessel is loading a cargo of hard frozen palletised meat with a required carriage temperature of minus 18 degree Celsius. A thermistor at the centre of the pallets indicates the temperature to be approximately minus 10 degrees Celsius during loading. What action, from the options given, should be taken under these circumstances?

A : Return the cargo ashore for pre-cooling to minus 18 degrees Celsius.

SPEH : Due to failure of one of the carbon brushes the excitation voltage is lost on one alternator that is operating in parallel. Will that alternator then:

A : Completely lose its share of the load causing the auxiliary engine to speed up

SPEH : Due to failure of one of the carbon brushes the excitation voltage is lost on one alternator that is operating in parallel. Will that alternator then:

A : Completely lose its share of the load causing the auxiliary engine to speed up

SPFC : Which of the following temperature sensors does normally give the highest measuring accuracy?

A : Resistance sensor, Pt100



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

SPFC : Which of the following temperature sensors normally gives the highest measuring accuracy?

A : Resistance sensor, Pt100

SPGA : You will anchor a VLCC at a depth of 80 meters in open water with swell. How much chain will you use?

A : - 11 shackles

SPGA : You will anchor a VLCC at a depth of 80 meters in open water with swell. How much chain will you use?

A : 11 shackles

SPHQ : When loading a inhibited cargo, which documents must be received prior commencement of loading :

A : A certificate with information regarding the inhibitor added such as type, oxygen dependence, date added, duration of effectiveness, max adjacent temperature, lifetime and other limitations.

SPLA : An area A1 is:

A : an area within the radiotelephone coverage of at least one VHF coast station in which continuous DSC alerting is available

SPPQ : For a container stowed in a position equidistant from the roll and pitch axes of a ship, what will quarter the acceleration forces acting on it?

A : Doubling the roll period

SPVV : What is the meaning of organic chemistry?

A : Organic chemistry are substances that contain of hydrocarbons

SPWU : Certain vessels are required to maintain oil record books according to the IMO. Is it compulsory that an oil record book is maintained onboard liquefied gas carriers?

A : Yes, on all ships that comply with MARPOL 73/78 annex 1 must have oil record book onboard

SPYJ : Who is responsible for the voyage plan?

A : The Master

SQDC : A main steam boiler is to be shut down for an extended period. Which of the following methods for the lay up is best suited to maintain the boiler in good order?

A : Lay the boiler up dry by draining all of the water and fitting heaters in the drums to prevent condensation forming which may result in corrosion.

SQLQ : What section of the Crew Agreement contains the "Contractual clauses"?

A : ALC 6



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

SQJK : Editing (Preparation)of the book "Excerpts from The Norwegian Passenger and Cargo Ship Legislation, etc. " is done by:

A : The Norwegian Maritime Directorate.

SQJK : Editing (Preparation)of the book "Exerpts from the Norwegian Ship Control Legislation" is done by:

A : The Norwegian Maritime Directorate.

SQRH : A fully refrigerated gas carrier, equipped with membrane tanks with MARVS less than 0,7 bar and cargo temperature less than - 10 C. What type of barrier is required?

A : Complete secondary barrier.

SQRH : Which kind of secondary barrier, if any, is required for an LNG carrier fitted with membrane type cargo tanks?

A : Complete secondary barrier not formed by the hull.

SQSQ : How would you check if familiarization training is adequate?

A : By asking different crew members specific questions relating to the familiarization training

SQUE : Which electronic component or system of components does this graphical symbol illustrate ?

A : Inverter

SQUE : Which electronic component or system of components is this graphical symbol illustrating ?

A : Inverter

SQYA : What is meant by the term lapping in in relation to diesel engine cylinder cover valves?

A : Grind the valve against the valve seat to obtain a uniform sealing surface

SQYA : What is meant by the term lapping, in relation to diesel engine cylinder cover valves?

A : Grind the valve against the valve seat to obtain a uniform sealing surface

SRAU : Which one of the listed requirements regarding inflatable liferafts corresponds to present regulations? Every liferaft shall be so constructed that:

A : have a floor capable of being sufficiently insulated against cold by means of inflated compartments, or by equally efficient means not dependant on inflation

SRBA : During rolling which of the following bears the initial stresses?

A : Lashing rods



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

SRBA : On a Container vessel, during rolling which of the following bears the initial stresses?

A : Lashing rods

SRBA : When a vessel is rolling, which of the following bears the initial stresses?

A : Container lashing rods

SRBP : This circuit is a transformer with two windings, $N(1) = 2000$ and $N(2) = 1000$ turns, on a common magnetic circuit. Assume that there are no energy losses in the transformer itself. Calculate the output voltage $V(2)$ when the input voltage is $V(1) = 100$ Volt.

A : $V(2) = 50$ V

SRBU : What is recommended for removing lime and heavy lime deposits?

A : Acid detergent.

SRCN : How much water per person is provided in a liferaft equipped with a desalting apparatus?

A : 1 litre

SRRE : When where the Regulations concerning Safety Measures etc. on Passenger Ships, Cargo Ships and Lighters laid down?

A : 15 June 1987.

SROD : On a UK ship where might you get a flag state control inspection

A : In any country by an MCA Marine Officer

SRPA : If you were put in charge of a fire team what is the minimum number of men wearing BA sets that you would allow to enter a smoke filled compartment?

A : 2 men

SRRN : Which one of the listed fire-extinguishing medium is most effective against an open oil fire?

A : Foam

SRSF : In the diagram, which letter is pointing to the area of the ship known as the "STERN"?

A : Stern is given by C on the figure

SRTC : Are there any restrictions regarding length, breadth or draft in the Panama Canal?

A : Restrictions regarding length and breadth exists. Draft restrictions vary with seasonal changes.



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

SRTE : After water-washing the turbocharger exhaust side, the blower starts to vibrate. What has happened?

A : The rotor blades are damaged or the blades are not properly cleaned.

SRTH : You are ready to start crude oil washing of a cargo tank. What measurement(s) must be performed before you start?

A : All the measurements mentioned must be performed.

SRVV : On the figure 4 possible definitions of the term "PORT QUARTER" are given. Which one is the correct one?

A : Port quarter is given by D on the figure

SRXH : In celestial navigation the angle measured westward from the first point of aries to the hour circle of the body along the celestial equator is known as:

A : Sidereal hour angle

SRYS : According to "Summary of minimum requirements" in the IGC Code, what is the requirement for vapour detection for methane (LNG) cargoes?

A : Flammable vapour detection.

SRYS : According to "Summary of minimum requirements" in the IGC Code, what is the requirement to vapour detection for Methane?

A : Flammable vapour detection.

SSAM : So as to avoid possible cargo claims at the discharge port what should be maintained besides the cargo lashings?

A : Hatch covers, hatchways and cargo hold ventilators

SSGN : What is the purpose of the "Bowsing tackle" (block and tackle) supplied at each end of the lifeboat?

A : It keeps the boat alongside the embarkation deck so that the tracing pennants can be released

SSHM : What is a hydrostatic release unit?

A : A unit which automatically releases the liferaft/lifeboat at a depth of approx 4 metres.

SSMG : When we are taking "ullages", what are we really doing?

A : Measuring distance from cargo level to ullage point

SSOA : You are the officer in charge of discharging an oil tanker in Corpus Christi, USA. The applicable sections of the U.S. Code of Federal Regulations require that there be current Oil Transfer Procedures available on board. What do the regulations require in terms of the format of, and accessibility to, those Transfer Procedures?

A : Posted or available where it can be easily seen and used by crew-members engaged in the discharge operation.



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

SSOA : You are the officer in charge of discharging an oil tanker in Corpus Christi, USA. The applicable sections of the U.S. Code of Federal Regulations require that there be current Oil Transfer Procedures available on board. What do those regulations require?

A : Posted or available where it can be easily seen and used by crew-members engaged in the discharge operation.

SSOA : You are the officer in charge of discharging an oil tanker of 15000 DWT in Corpus Christi, USA. Where shall the Oil Transfer Procedure be located?

A : Posted or available where it can be easily seen and used by crew-members engaged in the discharge operation.

SSOC : What is mayonnaise made from?

A : Egg yolks, oil and lemon juice or vinegar.

SSOX : Which is the "STARBOARD QUARTER", in the figure?

A : The Starboard quarter is C, in the figure

SSOY : What was going to happen at 4 o'clock in the afternoon?

A : The ship would be due to sail

SSPQ : Generally speaking, what is the value commonly recognised as the maximum concentration of oil vapours allowed in the breathing air of a breathing apparatus?

A : 5mg/m³

SSPT : The responsibility for safety and security rests with everybody on board the vessel. General house-keeping rules should be followed. Which of the listed rules is the most important?

A : Do not use dangerous liquid detergents in closed spaces.

SSPX : What kind of routine would you follow to make preparations for the next days menu (frozen meat and fish)?

A : Chief cook and second cook work together to select provisions for officers and crew, discussing needs and quantities, if necessary.

SSSK : After how many hours would you consider changing the turbocharger bearings, even though all appears to be normal?

A : 12.000 hours.

SSVU : What must be ensured prior to opening side-rolling hatch covers?

A : Cross wedges have been removed

SSVU : What must be ensured prior to opening side-rolling hatch covers of a bulk carrier?

A : Cross wedges have been removed



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

SSWK : Which inert gas systems use only gases from the ships main or auxiliary boilers?

A : The flue gas plant

SSXM : You enter a high voltage switchroom and smell rotten eggs. What may this indicate?

A : Problems with a gas (SF6) circuit breaker

STBN : What kind of safety equipment must be worn during mooring operations?

A : All of the mentioned equipment.

STIW : Having boarded the liferaft, how do you release the painter?

A : Cut it with the safety knife stowed on the exterior of the canopy close to the painter attachment point

STJU : Which one of the listed requirements regarding self-righting partially enclosed lifeboats do not correspond to present regulations? Self-righting partially closed lifeboats shall have:

A : sufficient number of pumps and bailers

STJY : Which statement is correct for a fire door class "A-60"?

A : Class "A-60" fire doors shall prevent the passage of smoke and flame and the average temperature of the unexposed side shall not rise more than 180

STLM : Welding and burning are among the factors which give the highest risk of fire on board ships. Precaution has to be taken to avoid this risk. Which of the following safety rules may be regarded as the most important?

A : The welder shall have been instructed in the use of the ships welding plant.

STMG : What is the minimum recommended ratio between stripping capacity and total water put through during bottom washing?

A : 1.25 times?

STPO : Which statement about fire doors is true?

A : When closed during an emergency, passengers may get hit and injured.

STQJ : In the Inmarsat Maritime Communications Handbook one can find information about:

A : 2 digit code telex services

STQL : What does the abbreviation DSC means?

A : Digital Selective Call



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

STQR : What name is given to the inspection and measurements at the end of a bulk carriers loading operation, that determines the weight of cargo lifted based on the observed draughts, any list, hog or sag, the dock water density and the calculation of ballast and consumables on the vessel?

A : Draught Survey.

STRE : If there is never any water in the lubricating oil, why must we add water to the self cleaning separator bowl

A : To minimise oil losses and prevent the sludge getting too hard

STUE : A medium speed diesel engine is used to drive a controllable pitch propeller through a suitable clutch and reduction gearbox. What should the blade attitude normally be after the engine is started and before the clutch is engaged?

A : The blades should be in the zero thrust position.

STUE : A medium speed diesel engine is used to drive a controllable pitch propeller through a suitable clutch and reduction gearbox. What should the propeller blade attitude normally be after the engine is started and before the clutch can be engaged?

A : The blades should be in the zero thrust position.

STUQ : The exhaust gas temperature is too high in all cylinders because of:

A : Charge air pressure is too low.

STYA : When is a machine "securely guarded?"

A : When it is fitted with a guard or similar device which prevents foreseeable contact between a person, his clothing or items held in his hands, whilst it is in operation

STYA : When is a machine "securely guarded?"

A : When it is fitted with a guard or similar device which prevents foreseeable contact

SUAB : After discharge of a bulk cargo by grabs, tank tops and lower hopper side plating must be checked for ?

A : Damage and possible leaks

SUCA : What are Primary fenders, with regard to ship-to-ship transfer operations?

A : Large fenders meant for floating between vessels and absorbing considerable impact. Example of fender size: L - 4.5 m. Dia. - 3.3 m.

SUCC : If left-over cooked meat is to be re-used in another meal, which of the following precautions must be taken?

A : The meat must be fine chopped to ensure it re-heats to at least 70 degrees Celsius as quickly as possible; it must not be mixed with newly prepared raw meat; the dish in which it is used must o

SUFL : Give the meaning of the following symbol

A : Start water-spray



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

SUFQ : The vessel has anchored. You are to secure the anchor. How do you do it?

A : By use of cable stopper backed up by brake with chain slightly slack between stopper and winch

SUHY : What necessary precautions should be taken before entering a tank or an enclosed space?

A : Make sure that the tank/ enclosed space is gas free, ventilated and the oxygen content is measured. O2 content shall be 21% before entering the tank/ enclosed space

SUJW : In respect of a chemical tanker, carrying category "X", "Y" and "Z" Noxious Liquid Substances, what is understood by the term "Clean Ballast" as defined in the IBC Code?

A : Ballast water carried in a tank which, since it was last used to carry a cargo containing a substance in category "X", "Y" or "Z", has been thoroughly cleaned and the residues resulting there f

SUKO : When fully loaded, a lifeboat should have a sufficient strength to withstand a drop into the water from a height of:

A : not less than 3 metres

SUKO : When fully loaded, a lifeboat should have a sufficient strength to withstand a drop into the water from a height of:

A : Not less than 3.0 metres

SUOY : Which of the following options may be used as a brief summary of how to safely make high voltage equipment accessible?

A : Disconnect, isolate, earth (ground)

SUPJ : What will happen when you start a centrifugal pump with the delivery valve closed?

A : The pressure control valve will automatically close, the ventilation valve will open

SURF : When is sector search most effective?

A : Position of the search object is accurately known

SUSU : The Muster List shall show the duties assigned to members of the crew. Which of the following duties shall be included according to present regulations?

A : Manning of fire parties assigned to deal with fires.

SVAP : What is the search system pattern called using 1 vessel?

A : Sector System

SVBE : What is the time limit for abandonment of passenger ships?

A : 30 minutes from the time the abandon ship signal is given



SVBG : Proteinic foams have the feature of being?

A : Of low expansion, viscous and solid, easily contaminated by hydrocarbons

SVBG : Proteinic foams have the feature of being...

A : Of low expansion, viscous and solid, easily contaminated by hydrocarbons

SVEP : On a RoRo vessel, where will escaping gasoline vapours settle in a cargo hold? If the forced ventilation system is shut down

A : At the lowest levels

SVEP : Where will escaping gasoline vapours from vehicles/ro-ro units settle, in a cargo hold?

A : At the lowest levels

SVEP : Where will escaping gasoline vapours settle in a cargo hold?

A : At the lowest levels

SV EQ : Which frequency is used for MF DSC distress calls

A : 2187,5 khz

SVHL : Due to what could a bulk carrier fail a cargo hold inspection?

A : Loose rust around the cargo hold

SVHL : Which of the following reasons would make a bulk carrier fail a cargo hold inspection?

A : Loose rust around the cargo hold

SVIW : At least, how often shall life boats be launched with their assigned operating crew aboard and manoeuvred in the water?

A : Every three months

SVMW : For a search to be effective it must
b e :
e

A : Centrally controlled.

SVSR : Which of the pressures is the most satisfactory at the suction of an air conditioning freon compressor?

A : 4.5 bar



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

SVUP : The pair of instruments necessary for generator synchronising are:

A : Voltmeter and synchroscope

SVVX : Prior to loading general cargo on a General Cargo vessel, what must be ensured with regard to lashing wires, terminations, shackles, turnbuckles, pad eyes and D rings?

A : They must all be certified and be (visually) unimpaired

SVVX : Prior to loading general cargo what must be ensured with regard to lashing wires, terminations, shackles, turnbuckles, pad eyes and D rings?

A : They must all be certified and be (visually) unimpaired

SVWF : How much liferaft capacity should be provided on a conventional cargo ship of more than 85 meters in length, built after July 1986?

A : 100% of the complement if it can be readily launched on either side of the ship. If it cannot be readily launched on either side, 100% must be provided on each side

SVYO : Why must we never use grinding paste on the seating or on the gliding surface of a needle?

A : Any remaining grinding paste will corrode on the metal surface and after some time the needle will be damaged

SWAI : Give the meaning of the following symbol:

A : child's lifejacket

SWCT : What is the flash point of a Class 3.3 substance?

A : Lower than or equal to 61°C

SWDX : A water heating system with automatic temperature control uses steam as the heating medium and the temperature is controlled by a pneumatically operated valve? What would be an acceptable start up procedure of the system from cold state?

A : Start the system up in manual mode and gradually increase the controller output signal until the temperature reaches the required value before changing over to automatic control.

SWFO : When handling drugs...

A : Wear skin protection and a facemask.

SWIT : What is considered to be a flammable product ?

A : A product with flashpoint below 60 °C.

SWMR : What is an effective means of measuring total dissolved solids in boiler water?

A : Conductivity test.



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

SWPD : What is a "hot work permit"?

A : A document issued by an authorised person, permitting specified work to be done for specified time in a defined area, employing tools and equipment which could cause the ignition of flammable gas

SWQC : What does the 1 Engineer want to have done?

A : He wants the heating coils inspected

SWQI : The circuit diagrams illustrate four different methods of wiring between a Pt 100 temperature sensor and its signal processing electronics. Which of the wiring methods gives the best measuring accuracy?

A : Figure 1

SWRC : Hand flares and buoyant smoke signals can continue to burn or emit smoke after having been immersed for a period of 10s

A : Right if the immersion depth is smaller than 100mm

SWRC : Hand flares and buoyant smoke signals can continue to burn or emit smoke after having been immersed for a period of 10s

A : Right if the immersion depth is smaller than 100 mm

SWRP : Why is it important to have good list during final draining?

A : To bring the remaining oil to the stripping suction

SWRV : Among working conditions listed below which one is required for every propulsion engine of lifeboats?

A : When the lifeboat is flooded

SWVX : If the temperature decrease, what will happen with the interface in the bowl?

A : Broken water seal, oil outside the top disc.

SWYL : Do you think increased temperature of the mixture would improve the separation of oil and water?

A : Yes

SWYM : There are a number of standard reliquefaction plants commonly fitted onboard LPG and other liquefied gas carriers. What type of reliquefaction plant is required for a cargo of Ethylene Oxide?

A : Indirect cycle.

SWYM : What type of reliquefaction plant is required if you are loading a cargo of i.e. Ethylene oxide?

A : Indirect cycle.



SXAI : Soot blowers should be used in proper sequence so that

A : soot would be swept toward the uptakes

SXAJ : Which international code are regulating what safety equipment a passenger ship must have onboard?

A : SOLAS

SXAU : LNG carriers are usually designated as Type 2G vessels according to the IMO IGC code. In relation to the Ships Survival Capability what is the level of preventative measure for cargo escape required for this type of vessel according to the Code?

A : Significant preventative measures

SXAU : What is the relationship between GM and the righting ability of the ship?

A : $GZ = GM \times \sin(\text{Angle of Heel})$.

SXAU : What is the relationship between GM and the righting lever with regard to the stability of a ship?

A : $GZ = GM \times \sin(\text{Angle of Heel})$.

SXCS : At what angle should a cargo lashing meet an eye plate?

A : At 90 degrees

SXHQ : Why is temperature control accuracy so important when cleaning lub oil in a conventional separator

A : Small changes in temperature can cause large movement of the interface

SXHV : In relation to LNG cargo operations when would cooling down of the cargo tanks normally be carried out?

A : Before loading cargo following gassing up of a previously gas free cargo tank.

SXHV : Which of the following has the highest diffusion resistance?

A : Freon 22.

SXJJ : In a PID controller we have possibility to change the setting of the Proportional band (P), the Reset time (I) and the Rate time (D). Please indicate which curve shows the typical response to a change in input, if the setting of the proportional band is too wide.

A : Figure 1.

SXMS : What equipment is provided in a liferaft to help you keep warm in cold weather?

A : The floor of the raft has a second layer which can be inflated to help insulation, in addition to the thermal protective aids (10% of complement, minimum 2)



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

SXPA : How is the 3rd Mate going to arrange the mooring lines?

A : He wants two spring lines, four stern lines and no breasts

SXPJ : The responsibility for safety and security rests with everybody on board the vessel. General house-keeping rules should be followed. Which of the listed rules is the most important?

A : Do not use loose garments, belts, ties or scarfs near winches and moving machinery.

SXQN : On a Container vessel, to which of the following are the Hague-Visby rules applicable?

A : Charter parties incorporating a Clause Paramount

SXQN : To which of the following are the Hague-Visby rules applicable?

A : Charter parties incorporating a Clause Paramount

SXRU : What is advisable for a person entering a padlocked refrigerated room?

A : He should take the padlock inside the room.

SXRV : How would you know how many people a lifeboat is supposed to hold?

A : The number of persons should be clearly stated on the outside of the boats bow

SXTE : You are sailing in shallow water with 15% Under Keel Clearance. Coming full astern from full ahead, how will your changed course compare to deep water?

A : The heading will most likely change by a large amount

SXTE : You are sailing in shallow water, with 15% Under Keel Clearance. Coming full astern from full ahead, how will your course change be compared to deep water?

A : The heading will most likely change by a large amount

SXTH : On area A4 the function " Transmission of ship to shore distress alerts" is mainly based on:

A : the use of HF DSC and SARTSAT COSPAS Epirbs

SXYG : What effect would a blocked steam connection to a boiler water level gauge glass have on the visible water level in the glass?

A : The level in the glass would be higher than the actual level in the boiler

SXYM : LNG cargoes are carried at temperatures well below ambient conditions. Which of the statements given in the options best describes how the low temperatures which are necessary are maintained during a normal loaded voyage?

A : The cargo tanks are fully insulated.



SYAD : What is the separator's intention?

A : To remove solids, water and sludge.

SYAG : On fully pressurised liquefied gas carriers the cargoes are usually carried at atmospheric temperatures. Is frostbite still a hazard on such vessels if there is leakage from the cargo pipe system?

A : Yes, the liquid will flash off to its fully refrigerated temperature.

SYAI : The most common valves used on an oil tanker are:

A : Gate valves, globe valves and butterfly valves.

SYIE : A fault in the fire detection and fire alarm systems will be indicated:

A : By audible and visual signals at the control panel, distinct from the fire signal

SYIP : Which of the following actions will most effectively prevent fire in a cabin?

A : Ensuring that all persons avoid smoking in bed.

SYNP : Give the meaning of the following symbol

A : Fasten seat belts

SYPG : A proper working of the 406 MHz Cospas-Sarsat EPIRB can be tested with:

A : the testing function of the device

SYPY : Crewmen are carrying out maintenance work in the engine room on overtime. The work does not affect machinery operation. At the end of normal working hours, what should the Engineer on Duty do?

A : Continue with manual operated engine room until the maintenance work is finished.

SYPY : Crewmen are carrying out maintenance work in the engine room on overtime. The work does not affect machinery operation. At the end of normal working hours, what should the Engineer on Duty do?

A : Continue with manual operated engine room until the maintenance work is finished

SYRV : On a RoRo vessel, what instruction should be given to the crew about unlashings of cargo prior to arrival at the berth

A : This can only be done when the bridge gives permission and no unit stowed on a ramp or incline can be unlash. Provided the company allow it.

SYRV : What should the master do if he has not received cargo information and the pre-stowage plan prior to berthing a ro-ro vessel?

A : Do not allow the commencement of cargo operations until relevant cargo information has been received



SYRV : Which of these is related to General Average?

A : The York Antwerp rules

SYSO : The breaking strength of the painter in a liferaft permitted to accommodate 15 persons is at least:

A : 10 kN

SYWS : How can we maintain necessary NPSH?

A : By control of liquid flow

SYXR : Correct start up procedure of an oil fired boiler is that the air fan is running for some time, before oil is supplied and ignition occurs. What is the reason for this?

A : For safety reasons, to ensure that all explosive atmosphere inside the boiler is removed.

SYYL : On a Chemical Tanker having 2 foam tanks for deck monitor use the foam quality has been found to have deteriorated. A new supply of foam is ordered. Your usual chandler does not have the required quantity of foam in one type and offers 2 types of foam instead, one for each tank. You would:

A : Reject the offer?

SYYU : After the discharge of Lube Oils, Lube Oil Additives, Phthalates and Olefins and before the loading of "high-spec" cargoes on a chemical tanker, what particular test might be expected to produce unsatisfactory results during initial wall-wash analysis?

A : Hydrocarbons.

SYYU : After the discharge of Lube Oils, Lube Oil Additives, Phthalates and Olefins and before the loading of "high-spec" cargoes, what particular test might be expected to produce unsatisfactory results during initial wall-wash analysis?

A : Hydrocarbons.

TAAL : LNG carriers designed with large membrane type tanks may be subject to severe stability problems due to sloshing of cargo in heavy rolling conditions. Why is this problem more likely with this type of tank?

A : There is not normally any centre line wash bulkhead in this design.

TAAL : Which of the following points would be the specific point about which a vessel will roll in a seaway?

A : The Centre of Flotation CF.

TAFD : At what temperature should the meat and fish freezers be maintained?

A : - 20° C

TAGC : Which of the following statements concerning SARSAT COSPAS Epirbs is true ?

A : The location of the beacon is determined by Doppler shift measurement



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

TAHA : Which item among those below is included in the normal equipment of every liferaft ?

A : one (two for a 13 person accommodation) buoyant bailer

TAIP : What is the period of validity of the Safety Management Certificate

A : 5 years

TAJG : Refrigerated cargoes are generally easy to secure for a sea passage when compared to some bulk, timber and project type cargoes. The cargo must be stowed so that it will not shift during the voyage and so that a good air flow can be maintained through the cargo. Which one of the given options is most likely to result in this required outcome and a successful carriage?

A : A tight uniform stow which forces air through the cargo.

TAKH : What kind of permanent documentation is required for personnel assigned specific duties and responsibilities related to cargo or cargo equipment on , for example, a liquefied tanker?

A : A tankerman certificate

TAKJ : Which one of the listed requirements regarding abandon ship and fire drills do not correspond to present regulations?

A : On all short international voyages, muster of passengers shall take place as soon as possible after departure

TALF : Select the right send and receive frequencies for sending a ship/ship MF-DSC message:

A : TX: 2177.0 kHzRX: 2177.0 kHz

TAQH : What is the primary responsibility of a watch-keeping engineer?

A : To ensure safe and efficient operation.

TAQH : What is the primary responsibility of the engineer officer in charge of a watch?

A : To ensure safe and efficient operation.

TAQK : What is the BC Code?

A : The Code of Safe Practice for Solid Bulk Cargoes

TARS : To Sweep the Ship in an emergency means that crewmembers are:

A : searching for passengers in cabins or other hidden places onboard

TASR : If a chemical tanker has a single tank of 3000 m³ or more what will apply ?

A : This tank must be inerted if carrying a flammable product (Flash Point<60°C).



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

TAVB : When ordering foam for restocking of the foam tanks on a Chemical Tanker, and regular protein foam is offered, you would:

A : Reject it?

TAXN : When muster to a lifeboat drill, what is the first thing you do when entering the muster station?

A : Put on your life jacket.

TBAY : Which item among those below is included in the normal equipment of every lifeboat ?

A : a buoyant bailer and two buckets

TBEC : A road trailer is marked as follows: SWL 70t; Tare wt. 6t. What is the gross weight of the trailer when carrying its maximum payload?

A : 76 tons

TBGU : What does it mean in relation to the Seamen's Act that no collective wage agreement applies to the employment relationship?

A : That the Seamen's Act applies in full

TBIG : What does 60 degrees Fahrenheit equate to on the Celsius scale?

A : 15.6 degrees C.

TBIG : When loading chemical cargoes in the United States, temperatures are often supplied in degrees Fahrenheit. What does 60 degrees Fahrenheit equate to on the Celsius scale?

A : 15.6 degrees C.

TBJJ : What must be ensured, prior to receiving a bulk cargo of iron ore on a Bulk Carrier?

A : Cargo hold bilge suction must be satisfactorily tested

TBJJ : What must be ensured prior to receiving iron ore?

A : Cargo hold bilge suction and topside tank drop valves must be satisfactorily tested

TBRK : You have just finished loading a cargo of Methyl Isobutyl Ketone. What must happen before the shore hose can be disconnected?

A : All possible cargo residues in the line must be drained or cleared and any pressure relieved. The manifold valve and shore valve must be confirmed as closed.

TBSL : What should be observed concerning a ship's water tight integrity?

A : That all vessel's water tight ramps and doors are locked and secured at sea.



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

TBUY : After starting a freon compressor, how long should you wait before opening the oil separator return valve?

A : After the separator shell has warmed up.

TBVW : How does the maximum oil film pressure in a white metal journal bearing operating under full fluid film conditions compare with the pressure of the lubricating oil supply system?

A : Greater than the pressure in the lubricating system.

TBXP : What kind of foot wear should be used when working on deck and in the engine room?

A : Safety shoes or safety boots

TBXU : A Cargo Ship Equipment Certificate will be issued for :

A : A period not exceeding 24 months

TBXU : A Cargo Ship Equipment Certificate will be issued for:

A : A period not exceeding 24 months

TBYK : What do we mean by purging a cargo tank?

A : To purge a cargo tank is to change the vapour phase either with cargo or neutral atmosphere.

TBYK : With reference to liquefied gas carrier operations what is normally meant by the term purging a cargo tank according to industry guidance?

A : Replacing the existing tank atmosphere with cargo vapour.

TCFW : What is the purpose of introducing inert gas into each cargo tank.

A : To control the tank atmosphere by introducing the required inert gas.

TCGV : After checked for open airway, given the first two inflations and checked the pulse to make sure that the heart is beating, what is the rate of inflations given until natural breathing is restored ?

A : 12 - 16 times per minute

TCKG : A thermistor which provides feedback for a thermal control system is suspected to have failed. Assuming there is no available replacement, which of the following methods may be used to prove it has failed?

A : Disconnect the thermocouple lead from the controller and replace with a mV source.

TCOT : If a shipping company wants to attract clients, what should it offer?

A : If a shipping company wants to attract clients, it should offer an efficient and reliable service



TCOT : What is the room often called where the crew eat their meals?

A : The crew mess

TCQW : What does the term "Hard a Starboard" or "Hard to Starboard" mean?

A : Put the rudder full starboard.

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A : Put the rudder full starboard.

TCQX : Vessel will leave anchorage. You will heave up the anchor. How and to whom will you report the status of the anchor?

A : To the master according to his instructions

TCTE : When operating a propulsion installation consisting of medium speed diesel engines driving a controllable pitch propeller it is possible to operate the combination of engine speed and propeller pitch in a number of different ways. What would be the main reason for operating with constant speed and variable pitch?

A : To allow constant speed operation of a shaft generator while the engine load changes with pitch variation.

TCUD : Cargo Gear/Cranes should at regular intervals be thoroughly examined and load tested by a recognised company/yard. How often should such examination/load test take place?

A : - 5 years.

TCUD : Cargo Gear/Cranes should at regular intervals be thoroughly examined and load tested by a recognised company/yard. How often should such examination/load test take place?

A : Every 5th year.

TCWW : Many chemical tankers are fitted with deepwell centrifugal cargo pumps. What is the process by which any leakage of cargo or hydraulic oil into the pump cofferdam is detected?

A : Purging.

TCYE : According to the rules of GMDSS vessels equipped for all sea areas have to be provided with:

A : 406.0 MHz Cospas-Sarsat EPIRB

TDDV : The gyro compass can suffer from a compass error and may need to be allowed for, when steering a course in a dangerous navigational area. What is the probable cause of the error?

A : An uncorrected course and speed error.

TDGO : On a Container vessel, what precautions should be taken when cashew nut shell liquid has spilled out of a container?

A : Avoid skin contact and inhalation of toxic fumes



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

TDGO : What could happen if the crew of a container vessel is not familiar with essential shipboard procedures related to the prevention of pollution by harmful substances?

A : The vessel could be detained by port state control authorities

TDGO : What precautions should be taken when cashew nut shell liquid has spilled out of a container?

A : Avoid skin contact and inhalation of toxic fumes

TDGV : How should lashing belts be stowed on board?

A : According to their Safe Working Load (SWL)

TDGV : How should lashing belts be stowed on board a RoRo vessel?

A : According to their Safe Working Load (SWL)

TDJH : When should voyage planning be done?

A : Prior to sailing

TDKQ : Where are the maximum Shearing Forces likely to occur on an oil tanker?

A : At the bulkhead between empty and full tanks

TDKQ : Which oil tankers shall have prompt access to computerized shore-based damage stability and residual structural strength calculation programs?

A : All tankers of 5,000 tonnes deadweight or more.

TDKT : A two step controller (open/close) has failed and the only available spare controller is a P+I controller. Select, from the options given, how the P+I controller could be set up to achieve approximate two step control.

A : Set the proportional band to maximum width and the integral action to minimum (repeats per minute).

TDKX : It is important that the brake holding capacity of a self stowing winch drum should not exceed the breaking strength of the wire or rope wound onto it. A certain percentage of extra strength is therefore recommended for the wire or rope over the brake holding capacity of the winch. So, for a winch of brake holding capacity of 60 Tons you would order a wire of breaking strength:

A : 100 Tons.

TDKX : It is important that the brake holding capacity of a self-stowing winch drum should not exceed the breaking strength of the wire or rope wound onto it. A certain percentage of extra strength is therefore recommended for the wire or rope over the brake holding capacity of the winch. So, for a winch of brake holding capacity of 60 Tons you would order a wire of breaking strength:

A : 100 Tons.

TDPX : What legal powers does the Enforcement Unit of the MCA have?

A : Same powers as Marine officers in that they can detain a vessel, conduct an inquiry into an incident/accident and start legal proceedings against the persons involved



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

TDTH : The most effective way to combat the threat of drug smuggling is to?

A : Combining routine, but irregular searches of the ship with spontaneous targeted searches.

TDVP : At present the MF/HF transmitter often has an automatic aerial turning unit. Should this fail:

A : Its always possible to put the turning unit in a fixed position, so the MF distress frequencies can still be used

TDVR : According to the rules of GMDSS the frequency 2187.5 kHz is used for:

A : alerting

TDWI : In RoRo Cargo planning where should you look to find information on securing cargos

A : In the vessels approved Cargo Securing Manual

TDWI : What is 'Design Load'?

A : The total weight of cargo subject to athwartships and longitudinal accelerations

TDWO : As a fire fighter, what should you always consider when fighting a fire in a confined space?

A : The confined space always has six sides

TEAN : On a Container vessel, what is the function of a twistlock?

A : To secure/lash containers?

TEDC : In the diagram, which letter is indicating the position "MIDSHIPS"?

A : Midships is given by B on the figure

TEDU : What is the purpose of the discharge booster pump?

A : To increase the manifold pressure.

TEDU : What is the purpose of the discharge booster pump as fitted to some LPG carriers?

A : To increase the manifold pressure to allow discharge to pressurised storage tanks ashore.

TEEY : Indicate the correct name of the tool on the sketch:

A : Drill press



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

TEFQ : Water hammer is a shortlasting pressure peak travelling along the pipe. How can it be avoided in a cooling water system?

A : Operate valves gradually

TEFS : When paralleling two alternators they must have:

A : All of the mentioned alternatives.

TEIE : When using a buoy as an aid to navigation, which of the following should always be considered?

A : The buoy may not be in its charted position

TEIP : Which of the following is a warning sign of a faulty hydraulic hatch cover system?

A : A fall in the hydraulic header tank level

TEIP : Which of the following is a warning sign of a faulty hydraulic hatch cover system on a Bulk Carrier?

A : A fall in the hydraulic header tank level

TEIP : Which of the following is not a warning sign of a faulty hydraulic hatch cover system?

A : Dust and cargo particles around the piston gland

TEJW : On the figure 4 possible definitions of the term "DRAUGHT" are given. Which one is the correct one?

A : Draught is given by D on the figure

TELG : When a submerged centrifugal cargo pump is being run at too high a speed during discharge of a viscous cargo, the pump may start racing, causing a heat build-up around the suction, possible localised solidification of the cargo and consequent damage to the pump. What term is applied to this problem?

A : Cavitation.

TELG : When a submerged centrifugal cargo pump is being run at too high a speed during discharge of a viscous chemical cargo, the pump may start racing, causing a heat build-up around the suction, possible localised solidification of the cargo and consequent damage to the pump. What term is applied to this problem?

A : Cavitation.

TEOA : High Voltage systems rely on the installed protective equipment being able to interrupt any fault in the system. Throughout the system, the fault level has been calculated, and under no circumstances must the system be modified to exceed this fault level. What is meant by fault level?

A : The amount of apparent power that could flow into any fault at any point in the electrical network.

TERW : What is IMO's definition of liquefied gas?

A : Liquid with vapour pressure exceeding 2.8 bar absolute at a temperature of 37.8 C.



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

TERW : Which of the given options is IMO's definition of liquefied gas as used in its Gas Codes?

A : Liquid with vapour pressure exceeding 2.8 bar absolute at a temperature of 37.8 C.

TETA : Simple gauge glasses for indicating the boiler water level, such as the one shown here, are often fitted to low pressure boilers. What would be a reasonable schedule for blowing through the gauge glasses?

A : at the beginning of every watch

TETA : Simple gauge glasses for indicating the boiler water level, such as the one shown here, are often fitted to low pressure boilers. What would be a reasonable schedule for blowing through the gauge glasses to make sure they are reading correctly?

A : at the beginning of every watch

TEXN : You are approaching the port entrance. What do these lights mean?

A : A vessel may proceed only when she has received specific orders to do so.

TEYN : On a RoRo vessel in a wet climate what can happen to wheeled cargoes?

A : Lashings can become slack over time and the cargo is more likely to shift due to the wet weather

TEYN : When securing a non-standardized portable tank what is a favourable securing angle that will prevent it from transverse sliding?

A : 18 to 25 degrees

TEYN : With the ship in a cold climate what will happen to wheeled cargoes?

A : Stains on cargo due to moisture from ship's sweat

TFDX : You are going to enter a tank to lift out some oily sediments. You are going to need to use scrapers and shovels. What kind of work permits need to be issued before this task is commenced?

A : Enclosed Space Entry Permit and Cold Work Permit.

TFDX : You are going to enter a tank to lift out some sediments. What kind of permits need to be issued before entering?

A : Enclosed Space Entry Permit and Cold Work Permit.

TFGO : Give the meaning of this symbol:

A : LLebuoy with light and smoke

TFHH : An attempt is made to remove a ball bearing from a pump shaft using a hydraulic cylinder type bearing puller. It is noticed that the puller legs are starting to bend but there is no sign of the bearing moving. What action should be taken?

A : Remove the puller and try and warm up the bearing and cool down the shaft a little before trying the puller again.



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

TFKV : Select the correct send and receive frequencies for sending a DSC 'distress alert' in the MF band:

A : TX: 2187.5 kHzRX: 2187.5 kHz

TFOA : On a Container vessel, what will happen to sodium under normal atmospheric conditions in the presence of water?

A : It will self-ignite

TFOA : What will happen to sodium under normal atmospheric conditions in the presence of water?

A : It will self-ignite

TFSY : Passenger ships shall either carry automatically self-righting liferafts or canopied reversible liferafts. What does it mean that a liferaft is automatically self-righting?

A : The liferaft will automatically turn back into an upright position when it is empty of people

TFYK : How is the used dunnage of a bulk carrier classified under MARPOL 73/78?

A : Garbage

TFYK : What is dunnage considered as under MARPOL 73/78?

A : Garbage

TFYV : On the figure 4 possible definitions of the term "DEPTH TO MAIN DECK" are given. Which one is the correct one?

A : Depth is given by B on the figure

TGBK : The self contained air support system on a totally enclosed lifeboat is designed to provide safe and breathable air with the engine running for a minimum of how many minutes?

A : 10 minutes

TGEL : A number of standard 20 foot containers are to be loaded on the deck of a General Cargo ship by No 3 hatch; what are the main checks to be made ?

A : Containers stowed with doors aft, customs and security seals checked intact and clear access to lashings

TGER : What are the prerequisites for a CBA (Collective Bargaining Agreement) to be applied to service on NIS ships?

A : That the CBA expressly states that it applies to NIS ships and is subject to Norwegian laws and courts of law unless courts of another country is explicitly mentioned.

TGHE : Which provision has special bearing on the test that you have at this very moment?

A : The relevant regulations' Section 8.



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

TGMJ : On a RoRo vessel, which of these stowage situations produces high friction that does not allow movement of the cargo?

A : Vehicles in direct contact with steel decks

TGMJ : Which of these stowage situations produces high friction that does not allow movement of the cargo?

A : Vehicles in direct contact with steel decks

TGNC : Define the acronym GMDSS.

A : General Mundial Distress and Safety System.

TGRL : As part of the regular maintenance for a paramagnetic oxygen analyser used for measuring the oxygen content of exhaust gas it is important to keep the sample line filter as clean as possible. Why is this necessary with this type of instrument?

A : Pressure variations in the sample chamber can cause errors so restrictions must be kept

TGRM : What do you understand by the term 'Away From', with regard to the conventional stowage of dangerous goods?

A : Incompatible goods transported in the same compartment or hold or on deck provided a minimum horizontal separation of 3m is obtained

TGRM : Which of the following statements is incorrect with regard to IMDG Class 5 cargoes?

A : The goods require protection against the accumulation of dangerous vapours

TGVK : In ships stability what is understood by the term "In stable equilibrium"?

A : Stable equilibrium means the buoyancy force upwards and the force of weight

TGWD : We must clean the spots of oil on hot surfaces because:

A : all the answers are correct

TGXW : The smoke detector (fire indicator) indicates fire in a cargo hold loaded by general cargo. What first action should be taken?

A : Close the ventilation system and other openings to the hold in order to choke the fire

THAN : A 406 MHz Cospas-Sarsat EPIRB that transmits is:

A : always immediately detected by the satellites concerned

THBE : The button or switch "dimmer" of a mariphone serves:

A : to regulate the light



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

THJL : When selecting switchgear to work with High Voltage it is important to use an appropriate arcing medium. What is meant by arcing medium?

A : The gas or vapour which will minimise creation of an electric arc as contacts open.

THKD : Some liquefied gas carriers are classed as fully refrigerated. What is the general meaning of the term fully refrigerated liquefied gas carrier?

A : A vessel which is designed to carry liquefied gases at low temperature and atmospheric pressure between terminals with fully refrigerated storage tanks and a full onboard cooling plant.

THKD : What is the definition of a fully refrigerated gas carrier?

A : The MARVS is less than 0.7 bar.

THOS : Give the meaning of the following symbol

A : EPIRB

THQB : Which one of the listed requirements regarding the launching and recovery arrangements for survival crafts corresponds to present SOLAS regulations?

A : Means shall be available to prevent any discharge of water on to survival crafts during abandonment.

THSC : What are the main elements in a damage control plan?

A : Boundaries of the watertight compartments for decks and holds. Position of controls for opening and closing of watertight compartments. Arrangement for correction of list due to flooding.

THST : How many thermal protective aids are carried in each liferaft?

A : 10% of the number of persons the liferaft is designed to carry, or two, whichever is the greatest

THSX : In an emergency, passengers are most likely to be familiar with the ships layout and be able to find escape routes, if they are:

A : Frequent travelers on a 3-hour domestic ferry trip, and they are in the passenger lounge at the time of the emergency

THUG : What danger is associated with the carriage of bagged Ammonium Nitrate in cargo holds?

A : Risk of explosion

THUG : What danger is associated with the carriage of bagged Ammonium Nitrate in cargo holds of a General Cargo vessel?

A : Risk of explosion

THUG : What do you understand by the term 'Separated From', with regard to the stowage of dangerous goods on deck?

A : Separation by a distance of at least 6m horizontally



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

THVL : Below what moisture content is it considered safe to carry soya beans?

A : 13%

THVL : What is the primary hazard associated with the carriage of a bulk cargo of salt?

A : The only possible hazard is associated with ingress of water into the hold and a loss of stability

THVL : What is the primary hazard associated with the carriage of a bulk cargo of salt on a Bulk Carrier?

A : The only possible hazard is associated with ingress of water into the hold and a loss of stability

THXS : The training manual shall contain instructions and information in easily understood terms and illustrated wherever possible. Which one of the following objects do not have to be explained in detail in the manual according to present regulations?

A : The use of onboard communication systems

THXV : You wish to send an e-mail using the Inmarsat-C installation. The message has to be composed:

A : in ASCII

TIFE : A lifejacket has sufficient buoyancy and stability to lift the mouth of an unconscious person at a minimum of:

A : 120 mm above the water (in calm water)

TIFL : What Class notation denotes an oil tanker, combination carrier, chemical tanker, bulk carrier or ore carrier considered suitable for sea-going service, built or accepted into class in accordance with the society's rules and regulations, maintained in good and efficient condition, having on board anchoring and mooring equipment in accordance with the rules and subject to an enhanced survey programme?

A : -100A1ESP.

TIJL : How do we recognize a leaking fuel injection valve during testing?

A : If we have a sudden drop in pressure after the valve is supposed to be closed, this is caused by a leak

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A : The pressure falls off on the pressure gauge when trying to hold the pressure in the

TIJL : How do we recognize a leaking fuel injector during testing?

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TIJL : How do we recognize a leaking fuel injector during testing?

A : If we have a sudden drop in pressure after the valve is supposed to be closed, this is caused by a leak



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

TIKJ : With reference to the text in the frame: what is stated as a threat to lives at sea and the marine environment?

A : Bad management and poorly maintained old ships over several years have proven to be fatal

TIMW : What is understood by the term, "The Lee Side"?

A : The side from the wind.

TIPH : At which temperature should refrigerated cargoes be carried?

A : As stated by shipper?

TIQA : Which item among those below is included in the normal equipment of every rescue boat ?

A : one whistle or equivalent

TIRJ : How many crews are required to be trained and regularly drilled in all aspects of fast rescue boats in various conditions, including righting after capsizing?

A : 2

TITO : According to the rules of GMDSS, on behalf of a safe navigation, continuous listening service must be maintained on mariphone channel:

A : 13

TIUN : When may watertight doors in watertight bulkheads in tweendeck cargo spaces be open on board passenger ships?

A : In ports only

TIVD : How are the surfaces of ro-ro vehicle decks and ramps treated?

A : With non-skid paints

TI XV : Which chapter of the Seaworthiness Act is named Responsibilities of shipmaster and shipowner?

A : IX

TJCM : The economizer is used for

A : Heating of the feed-water

TJEO : What should you do with the ashes from your vessels incinerator which had burned garbage containing plastics?

A : Discharge to a shore facility only



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

TJJI : Which one of the listed requirements regarding rescue boats do not correspond to present regulations? Rescue boats shall:

A : have self-bailing arrangements

TJKB : Which type of call will be sent by a ship sighting another ship in distress which is not itself in position to transmit a distress alert ?

A : Distress relay call

TJOG : On a RoRo vessel, what is the Maximum Securing Load of D rings?

A : 50% of the breaking strength

TJOG : What is the Maximum Securing Load of 'D' rings?

A : 50% of the breaking strength

TJOG : What is the Maximum Securing Load of new 'D' rings?

A : 50% of the breaking strength

TJQW : What does Solas 74,Chapter II-2, regulation 20 refer to as to notices on board?

A : Fire control plans.

TJRF : On a General Cargo ship, when can dunnage from a previous cargo be used again for cargo?

A : Only when clean and Chief Officer has approved use

TJSF : On a RoRo vessel, what is the Maximum Securing Load of single use wire ropes?

A : 80% of the breaking strength

TJSF : What is the Maximum Securing Load of new wire ropes?

A : 80% of the breaking strength

TJVU : To maintain good relationship among the crew on board a vessel, one must be:

A : Understanding, Co-operative, and have respect from both sides

TJYD : On a RoRo vessel, what is the Maximum Securing Load of fibre ropes?

A : 33% of the breaking strength



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

TJYD : What is the Maximum Securing Load of fibre ropes?

A : 33% of the breaking strength

TJYD : What is the Maximum Securing Load of new fibre ropes?

A : 33% of the breaking strength

TKAB : The mode J2B is used:

A : for radiotelex-traffic in the MF/HF bands between ship and shore stations

TKBS : Water and acid mixed together in certain concentrations can result in the development of dangerously high heat levels and aggressive reactions with steel surfaces. Which of the following is a general description of the approach to be adopted when cleaning a cargo tank after the discharge of Sulphuric Acid?

A : It is important that, once cleaning commences, large quantities of washing water can be delivered as quickly as possible, so that the acid is rapidly diluted.

TKBU : Where in a passenger ship is furniture, due to fire protection, to be kept to a minimum? (SOLAS II-2/34.6)

A : In stairways and corridors

TKED : Which international organization is preparing conventions and rules for seafaring nations?

A : International Maritime Organization (IMO)

TKFX : What is the main purpose of a radio transmitting installation onboard:

A : to enhance the safety of lives at sea

TKGA : On a Bulk Carrier, which of these statements is correct?

A : Steel slabs must never be permitted to rest directly against any part of the ship's structure

TKGA : Which of these statements is correct?

A : Steel slabs must never be permitted to rest directly against any part of the ship's structure

TKGC : Which among the following list is particularly required for a totally enclosed lifeboat ?

A : access hatches capable of being opened and closed from both sides

TKGR : During a scavenge port inspection of a diesel engine the piston rings on all units were seen to display the signs of the early stages of microseizure. What action should be taken to ensure that the progress of the microseizure is stopped and the rings recover?

A : Increase cylinder oil consumption, determine fuel quality and readjust the fuel oil purifiers



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

TKLD : Shipboard Emergency Drills must be carried out at least (OPA-90)

A : Once a month

TKMO : Which Code applies to the design, construction, equipment and operation of ships certified to carry Noxious Liquid Substances in bulk constructed on or after 1st July 1986?

A : The International Bulk Chemical Code (the IBC Code).

TKQN : In discussing the efficiency of a cargo pump, such as may be used on an oil tanker, what term is usually used to describe the absolute pressure of a liquid at the inlet to a pump minus the vapour pressure of the liquid?

A : Net Positive Suction Head Available.

TKQN : We say the centrifugal pump cavitates when:?

A : We have negative pressure on the inlet side of the pump.

TKRN : What kind of extinguishing-remedy would you choose to put out an electrical fire?

A : Dry extinguishing remedy.

TKTI : How soon after an accident, must it be reported to the MAIB?

A : Within 24 hours, or within 14 days in relation to serious injuries

TLDL : The number of frequencies on which a MF/HF-DSC distress alert multi-frequency call attempt can be transmitted is:

A : 6

TLEF : Is it permitted to load fully refrigerated propane directly onto a fully pressurised LPG carrier without additional conditioning of the cargo or cargo spaces?

A : Yes if the cargo compartment is designed for temperature down to -48oC

TLKF : Two of the ASTM tables give long tons and metric tonnes pr. U.S.BBLs in regards to actual API. Which two tables?

A : Table 11 and 13.

TLNN : In Which publication will you find the working frequencies of coast stations?

A : The ITU List of Coast Stations

TLPC : A reefer vessel is to load a cargo of plantains and bananas. Due to space restrictions both have to be loaded into a common space. The usual delivery temperature for bananas is about 13 degrees Celsius and for plantains it is 7 degree Celsius. What would be the best delivery temperature for the mixture of these two fruits?

A : 13 C as plantains are less sensitive to the consequences of a higher delivery temperature.



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

TLPT : A common expression is for example 2 across. What does this mean.

A : CT2, WT2 port, WT2 starboard.

TLPV : What does it mean if the capacity to a centrifugal pump is given from the manufacturer to be for example 4000m³/h at 120mlc.

A : 4000m³/h at 120 meter liquid column. (delivery head).

TLRO : Chemical burns in eyes or on the skin can cause severe damage. Some chemicals may be absorbed through the skin and cause widespread and sometimes fatal damage within the body. What is the first main treatment if someone is a victim of chemical burns?

A : Remove any contaminated clothing and flood the affected area with slowly running water. Make sure that the contaminated water drains away freely and safely.

TLRP : Operation of eductor- what is correct?

A : According to the specific eductor's performance curve.

TLTI : If Mouth - to - Mouth (M-T-M) ventilation by itself is unsuccessful and the casualty's heart stops, or has stopped beating, you must perform External Chest Compression (ECC) in conjunction with M-T-M. When performing ECC, where do you place your hand on the casualty's body?

A : Place the heel of one hand, two finger breadths above the bottom of breastbone. Cover the hand with the heel of the other hand.

TLVW : How often should an inflatable liferaft be serviced at an approved service station?

A : Every 12 months

TLXM : What is the meaning of this symbol ?

A : Lifeboat

TMAC : What is the correct sequence of washing a cargo hold?

A : Sweep, saltwater wash, freshwater rinse, dry

TMAC : What is the correct sequence of washing a cargo hold of a General Cargo ship?

A : Sweep, saltwater wash, freshwater rinse, dry

TMEE : What is the recommended back pressure for a lub oil separator

A : It depends on the installation

TMFC : Centrifugal pumps and displacement pumps differ in several characteristics. Which of the following statements regarding a centrifugal pump is correct?

A : It is important that the rotation direction is correct to avoid dry running.



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

TMIC : What is the name by which the regulations which prevent and control pollution from ships are known?

A : MARPOL

TMIC : When the Cargo Surveyor goes down into a cargo tank and "wall-washes" the bulkheads, what is he checking?

A : The cleanliness of the tank.

TMIC : When the Cargo Surveyor goes down into a cargo tank and "wall-washes" the bulkheads, what is he testing?

A : The cleanliness of the tank.

TMMM : When stowing a container vessel, what should be considered when assessing the potential effects on the vessels torsion?

A : Distribution and weight of the containers?

TMQK : What is the SOLAS definition of deadweight?

A : Total weight in tons of cargo, equipment, complement, stores and supplies on summer freeboard in saltwater

TMRE : When ordering tinned peaches, which unit of measurement would you use?

A : Tins of 850 g each

TMRX : Where can the information be found as to what actual cargoes a liquefied gas carrier can carry?

A : Certificate of Fitness.

TMRX : Where do we find information about what cargo the vessel is allowed to carry?

A : Certificate of Fitness.

TMSD : Which of the following raw materials can help lower the cholesterol content in the blood?

A : Fatty fish

TMSD : Which of the following raw materials can lower the cholesterol content in the blood?

A : Fatty fish

TMUG : At what temperature should Intermediate Fuel Oil (IFO) 180 be maintained so as not to damage a bulk cargo of grain?

A : Between 30°C and 35°C



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

TMUG : What could happen if a bulk vessel failed to display placards notifying the crew of the disposal of garbage within and outside Special Areas?

A : The vessel could be detained by port state control authorities

TMUG : What could happen if a vessel failed to display placards notifying the crew of the disposal of garbage within and outside Special Areas?

A : The vessel could be detained by port state control authorities

TMVR : During replacement of the diesel engine cylinder cover following maintenance some manufacturers recommend that different torques are applied to some of the cylinder cover stud nuts. Select the option which is most likely to be the reason for this?

A : Temperature variations across the cylinder cover result in uneven thermal loads on the

TNAU : Which one of the following combustible materials involves a " class A " fire ?

A : Wood

TNBS : Having boarded the liferaft, how do you release the painter?

A : Cut it with the safety knife stowed on the exterior of the canopy close to the painter attachment point

TNDX : Furniture in stairways and corridors shall be kept to a minimum on board passenger ships, why?

A : Escape routes must be clear of obstructions and also due to fire protection

TNHP : What precaution must be taken when discharging crepe rubber?

A : There should not be bales outside a sling adhering to bales inside it

TNJV : Hand flares shall be so designed as to burn or emit smoke:

A : continuously after having been immersed for a period of 10 seconds under 100mm of water

TNLK : Would there ever be the need for two lookouts on the Bridge watch?

A : Because the Captain expects fog early in the morning

TNLM : When using a diskscrubbing machine where would you place the electric cord?

A : Behind one's back and over one of the shoulders.

TNOD : Could a lift be considered as an escape route from the engine room ?

A : No



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

TNOQ : Bananas form the largest proportion of fruit transported by sea. There are many varieties of banana. Which of the types given in the options is the most common type of banana that is transported by sea?

A : Cavendish

TNOX : What is the inherent danger in welding/cutting in piping containing freon?

A : Development of nitrous gases?

TNPO : An area A3 is:

A : an area excluding sea areas A1 and A2 within the radiotelephone coverage of at least one Inmarsat geostationary satellite in which continuous alerting is available

TNPQ : A standard outside micrometer requires regular maintenance, including calibration, in order to ensure accuracy of measurement. How is the accuracy of this type of instrument normally checked? Select the answer from the options given.

A : By measuring a standard gauge block or rod at a common temperature.

TNSJ : A ship is sub-divided by thermal and structural boundaries to:

A : Contain and extinct any fire in the space of origin

TNXL : What is the maximum allowable tank design pressure in the vapour space for Independent tanks type "A"?

A : 0,7 barg

TNXL : What is the maximum allowable tank design pressure in the vapour space for Independent Type "A" cargo tanks as used on many LPG carriers?

A : 0,7 barg

TNYA : How often shall the master review the safety management system?

A : Annually

TOBI : What are the most common types of pump used as main cargo pumps on liquefied gas carriers?

A : Deepwell or submerged multi-stage centrifugal pumps.

TOBI : What kind of pumps are used as main discharge pumps on gas carriers as cargo pumps?

A : On gas carriers multistage deep well or submerged pumps are used as main cargo pumps.

TOCE : During test and/or maintenance work of the CO2 system affecting the release system, precautions to ensure that the gas is not released into the engine room due to a mistake are to be ensured. What precautions should be taken?

A : The main supply line to be blanked off prior to the work.



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

TODV : On a container vessel what action should be taken if a tank container of liquid ammonia is engulfed in fire

A : Allow ventilation

TOHK : Sanitary-, ballast-, bilge- or general service pumps may be accepted as fire pumps provided: (SOLAS II-2/4.3.2)

A : They are not normally used for pumping oil

TOIX : What do you think would be the most likely cause of high discharge pressure from a freon compressor?

A : Blocked condenser.

TOKG : What is the main reason that the cargo tanks and other components of an LNG carrier are insulated?

A : To prevent heat flow into the cargo, and to protect the ships structure.

TOKG : Why do we insulate cargo tanks and other components?

A : To prevent heat flow into the cargo, and to protect the ships structure.

TOMP : A palletised cargo is being loaded onto a reefer vessel. The cargo is stowed on wooden pallets. Select from the options given the best method to be used for lifting the pallets onboard the vessel in order to avoid damage to the pallet boards.

A : By using a patented semi-balanced lifting fork.

TOPM : The minimum number of lifebuoys required for a cargo ship cannot be less than:

A : 8

TORA : What are the duties of the master if a seafarer dies in service on board?

A : The master shall notify next of kin/ Norwegian Consulate - arrange for burial/ repatriation of coffin/ashes - and maritime inquiry

TOTF : A system for continuous monitoring of the concentration of hydrocarbon gas shall be fitted in cargo pump-rooms. A continuous alarm shall be automatically effected when the hydrocarbon gas concentration reaches a pre-set level. What are the criteria for pre-setting the alarm level?

A : No higher than 10% of LEL.

TOTF : A system for the continuous monitoring of the concentration of hydrocarbon gas shall be fitted in cargo pump-rooms of oil tankers. A continuous alarm shall be automatically activated when the hydrocarbon gas concentration reaches a pre-set level. What are the criteria for pre-setting the alarm level?

A : No higher than 10% of LEL.

TOTU : when installing a new water gage glass you should secure the bolts from

A : centre, alternately towards each end



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

TOVL : Which of following items shall be included in an abandon ship drill?

A : Checking that lifejackets are correctly donned.

TOYE : Which one of the listed requirements for passenger ships regarding personal life-saving appliances do not correspond to present regulations?

A : All lifejackets shall be fitted with a whistle, a light and a smoke signal

TPCA : Give the meaning of the following symbol

A : Start air supply

TPDU : When considering instrumentation systems, what is a typical symptom of a fault with the span of an instrument?

A : Zero-point is accurate, but 100% input is not giving 100% output

TPDV : You are serving on a 5 year old chemical tanker. You are called upon to order a portable blower for ventilation of DB tanks, cofferdams & pipe tunnels prior entry & during inspection. You would order a blower of capacity:

A : Able to effect a complete change of air of the space being ventilated 16 times an hour?

TPEO : Very roughly, the gas mixture from Crude Oil can be represented by the pure hydrocarbon gas Propane for analysis and comparison purposes. What then is the approximate Lower Flammable Limit of Crude Oil when measured as a percentage volume in air?

A : 1 to 2%

TPEO : Very roughly, the gas mixture from crude oil can be represented by the pure hydrocarbon gas Propane for analysis and comparison purposes. What then is the approximate Lower Flammable Limit when measured as a percentage volume in air?

A : 1 to 2%

TPGI : During inspection and calibration of a cylinder unit, the liner is found to be worn in a cloverleaf pattern with maximum wear midway between the lubrication points. What action is necessary to rectify the problem?

A : Increase the jacket cooling water temperature to avoid the sulfur dew point

TPGI : During inspection and calibration of one unit, you observe the situation shown. The conclusion is clover leafing. The main engine uses high grade TBN cylinder oil. What do you have to do in order to reduce wear?

A : Increase the jacket cooling water temperature to avoid the sulfur dew point

TPHC : Which item among those below is included in the normal equipment of every lifeboat ?

A : a first-aid outfit in a waterproof case

TPLC : The accuracy of an Inmarsat-E positioning-system is:

A : 200 meters



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

TPLE : How many thermal protective aids are required to be carried on passenger vessels with open lifeboats?

A : One for each person on board who is not provided with an immersion suit

TPNT : Settlement of disputes, not belonging to the category of the NIS Act ?6, outside Norway between the master and any of the crew regarding wages, the ship service or the employment relationships in general shall be brought before:

A : The Norwegian Consulate

TPNT : Settlement of disputes, not belonging to the category of the NIS Act, outside Norway between the master and any of the crew regarding wages, the ship service or the employment relationships in general shall be brought before:

A : The Norwegian Consulate

TPNX : A pallet of chilled cargo is made up by placing cartons on top of each other in tiers. Banding straps are then placed tightly around the cartons in way of robust, vertical cardboard corner pieces. Which of the given options is the main purpose of having these corner pieces?

A : The corner pieces add rigidity and strength to the stow of cartons on the pallet.

TPRN : When carrying fishmeal without anti-oxidant which of the following stowage patterns is recommended under the IMDG Code?

A : The double strip stow with extensive athwartships channelling

TPUE : You have just collected some fresh provisions from the storeroom below the galley. As you are coming back up the stairway, you slip and fall, dropping the provisions and scratching your leg, causing minor bleeding. Which of the following will you now do?

A : I will report the incident; I will obtain first aid; I will ensure an entry is made in the accident log; I will ensure all the provisions are inspected for damage and any bruised, broken or co

TPWC : The fuel consumption for the main engine is calculated using the readings from the supply and return flow meters which are of the positive displacement type. When compared to the quantities calculated from tank soundings and calibration tables and indicated on the contents gauges the consumption appears consistently high. Which of the options given is the most likely cause of this discrepancy?

A : The return flow meter is giving a low reading due to internal wear.

TPWF : The Chief Engineer tells you to carry out Hot work on deck. What kind of permit do you need?

A : Hot work permit

TPWX : What action should the Master of a General cargo vessel take with a fishmeal cargo, which is self-heating and liable to spontaneous combustion?

A : Follow guidance in IMO Bulk Cargo Code or IMSBC) and probably declare a port of refuge

TPXQ : What may be the cause of black smoke from the funnel?

A : Incomplete combustion owing to wrong mixture of air and oil.

TPXQ : What may be the cause of black smoke from the funnel?

A : Incomplete combustion of the fuel.



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

TQCW : If you were put in charge of a fire team what minimum number of men wearing a breathing apparatus would you allow to enter a smoke filled compartment?

A : 2 men

TQLY : What is the purpose of the "small diameter line" on a crude oil tanker?

A : Make it possible to drain to shore the remaining cargo in the ship's lines and pumps, after the discharging is completed

TQNL : During the cycle of a four stroke diesel engine there is a load reversal on the bottom end bearing when the load transfers from the upper part of the bearing to the lower part. What is the main cause of this load reversal on a modern, turbocharged, medium speed diesel engine?

A : The lack of gas load to oppose the inertial forces generated during the exhaust stroke.

TQQC : When securing cars on a RoRo vessel, what is the preferred lashing angle in any direction from the lashing point?

A : 45 degrees

TQQC : When securing cars, what is the preferred lashing angle in any direction from the lashing point?

A : 45 degrees

TQQL : A cargo of hard frozen, whole tuna is being loaded on a conventional reefer vessel. Select the best method of loading the cargo from the options given.

A : Use a rope net.

TQTJ : When a low pressure distilling plant is operated with less than the designed vacuum, the:

A : Heat level rises

TQWY : When using corrosive chemicals for cleaning purposes, should you:

A : Wear protective goggles, gloves, coverall, footwear and mask.

TRAE : Describe the documental process of discharging a seaman

A : The seaman signs in section b) of the appropriate ALC form (ALC1a, ALC 1b or ALC 1c as appropriate), the Master signs below in section c) of the crew agreement. Completes the relevant information in the seaman's discharge book, signs in the appropriate co

TRAF : If you have to carry out hot work close to a smoke detector in the engine room, what precaution(s) should be taken?

A : Notify the Master, Deck officer on duty and the Engineer on duty, the loop for this special sensor to be switched off and take normal precautions for hot work

TRFB : A Class divisions in ships are constructed so that they are capable of preventing the passage of smoke and flame to the end of a standard fire test held for:

A : 60 minutes



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

TRQA : What is the lightweight of a ship according to SOLAS?

A : Weight of the ship including fixed and permanent equipment, less cargo, complement, passengers, stores and supplies

TRQE : Which one of the given requirements regarding manning and supervision of survival craft corresponds to the SOLAS regulation?

A : A deck officer or certificated person shall be placed in charge of each survival craft to be used.

TRRK : When there is doubt about the freshness of the atmosphere in ro-ro cargo spaces, what action should be taken?

A : Arrangements should be made for testing of the atmosphere to ensure maintenance of 21% oxygen and a carbon monoxide content below 50 ppm in the atmosphere of the space

TSAQ : During maintenance work in the engine room an access ladder and platform have been removed to allow work to be carried out on a pipe. When breaking for lunch what action should be taken to make the worksite safe?

A : Close off the area with rope or tape and put out warning signs that work is in progress.

TSDE : What is the minimum MARVS on a fully pressurised liquefied gas carrier?

A : Not less than the gauge vapour pressure of the cargo at 45 degrees C.

TSEM : Under way to discharging port temperature tests indicate fire in a hold loaded with coal. What is the first action to be taken?

A : Close all air ventilators and other openings to the hold in question

TSJG : A clogged / dirty lube oil filter can be detected best by:

A : The pressure drop across the filter.

TSKA : Why is it impossible to have a lifeboat drill at present?

A : Because the ship is leaving after sunset the following day

TSKB : Secrecy in maritime radio traffic means that:

A : received messages, which aren't intended for own ship are not passed on

TSLU : The purpose of a VHF-installation onboard is in the first place:

A : To enhance safety in general

TSLV : Each ship fitted with a radiotelephone station according to the regulations shall listen on the distress frequency during navigation. For how many hours a day according to the regulations?

A : 24 hours



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

TSLV : Each ship fitted with a radiotelephone station shall listen on the distress frequency during navigation, for how many hours a day according to the regulations?

A : 24 hours

TSMU : Before entering tanks and / or enclosed spaces - what should be done?

A : All of the alternatives together.

TSSOM : How many separate means of escape from passengers and crew spaces should it be in each zone?

A : Two

TSSQ : A decision support system for emergency management shall be provided on the navigation bridge. What type of emergency situations shall as a minimum be identified in the emergency plans?

A : Fire, Damage to ship, Pollution, Unlawful acts threatening the safety of the ship and the security of its passenger and crew, Personnel accidents, Cargo-related accidents, Emergency assistance

TTBT : If a shaft of a centrifugal pump shows excessive wear by way of the stuffing box, is this caused by :

A : Excessive heating caused by over tightening of the gland packing.

TTGT : How should the Bosun prepare for anchoring?

A : He has disengaged the windlass and put the brake on

TTGW : What action should be taken if a purifier starts to vibrate heavily during normal operations?

A : Stop the purifier immediately. Check the machine for fouling or mechanical damage. Do

TTGW : What action should be taken if a purifier starts to vibrate heavily during normal operations?

A : Stop the purifier immediately. Check the bowl for heavy side, deposits, bearings, housing, and the spindle for damage.

TTHL : A lifejacket or immersion suit light has a luminous intensity of, and is capable of working at minimum for a period of:

A : 0,75 candelas (about 0,6 mile range at normal meteorological sight), 8 hours

TTMP : What additional stability information is required before a bulk carrier can load a full cargo of grain?

A : Grain loading conditions must be shown and the vessel is in possession of a Document of Authorization

TTOC : A new reefer vessel is described as having Cargo spaces lined with stainless steel, refrigeration supplied by circulating cold air around the outside of cargo spaces, no hatches on deck and one light crane. Which of the vessel types given in the options is the most likely type being described?

A : A vessel designed for the carriage of orange juice in bulk.



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

TTPV : A vehicle weighing 50mt is to be loaded in the fore and aft direction and lashed by chains/turnbuckles of SWL 5mt. How many sets of chains/turnbuckles should be used to secure the unit?

A : A minimum of 14

TTPV : On a RoRo vessel, a vehicle weighing 50mt is to be loaded in the fore and aft direction and lashed by chains/turnbuckles of SWL 5mt. By the general Rule How many sets of chains/turnbuckles should be used to secure the unit?

A : At least 10 per side

TITU : Injuries resulting from slips and falls constitute the largest percentage of accidents that occur in the catering department. What shall be done to reduce this high accident rate?

A : Keep the floors and decks free from fat and grease.

TUBR : If the temperature decrease, what will happen with the interface in the bowl ?

A : Broken water seal, oil outside the top disc.

TUBT : Which of the following actions will most effectively prevent fire in a cabin?

A : Ensuring that all persons avoid smoking in bed.

TUEB : On the figure 4 possible definitions of the term "FORECASTLE" are given. Which one is the correct one?

A : Forecastle is given by B on the figure

TUFA : What precautions are necessary to prevent soot fires in the exhaust boiler ?

A : All the mentioned alternatives

TUKT : What is Inert gas ?

A : It is a gas containing insufficient oxygen to support combustion of hydrocarbons

TUNG : OPA-90 is referring to a Qualified Individual (QI)

A : QI is an authorised individual, situated in the US, and contracted by the owner or operator of the vessel

TUSK : When should the watch-keeping engineer inform the bridge that the main engine is ready for manoeuvring?

A : Once the engine is properly prepared and tested and the engine room is correctly

TUSK : When should the watch-keeping engineer inform the bridge that the main engine is ready for manoeuvring?

A : When the machinery spaces are in the manned condition.



TUVB : What is the maximum length of a fire zone on any deck?

A : 40 meters

TUWX : The design features of a container ship with pronounced bow flare, a wide flat transom stern and wall sided amidships section contribute to what occurrence?

A : Parametric Rolling

TUWX : What action should be taken when a large container ship with flared bows and a wide flat stern is experiencing near-gale conditions?

A : Keep the seas abeam

TVDN : What problem is associated with the use of twistlocks?

A : The mixed use of left and right-handed twistlocks on the same vessel

TVHI : Regular 'updating' of a ships' position in an Inmarsat-C installation is necessary

A : to have the correct position in case of accidents

TVKF : A tachometer for a diesel engine is reading erratically. The tachometer is of the non-contact type using magnetic proximity switches to generate the signal. What is the most likely cause of this problem?

A : The proximity switch is loose on its mounting.

TVSB : You have recently discharged a cargo of Isoprene from tank 4 port. How will the atmosphere in the tank normally be tested for remaining (very low level) traces of Isoprene vapour to ensure safe conditions before a tank entry certificate is issued?

A : By sampling through a gas detector tube.

TVSB : You have recently discharged a cargo of Methylene Chloride from tank 4 port. How will the atmosphere in the tank normally be tested for remaining (very low level) traces of vapour to ensure safe conditions before a tank entry certificate is issued?

A : By sampling through a gas detector tube.

TVSI : The transmitting range of an HF transmitter is mainly determined by:

A : the time of day in relation to propagation

TVTB : During UMS rounds, a duty engineer notices that the fuel oil overflow observation glass is full of oil. Should he:

A : Stop all F.O. transfers immediately, and inform the CE.

TVTB : During UMS rounds, a duty engineer notices that the fuel oil overflow observation glass is full of oil. Should he:

A : Stop all F.O. transfers and other fuel operations immediately and check all fuel tank levels.



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

TVTC : The altitude effect of the reflection of radio waves in the ionosphere on the transmission range also depends on:

A : the day/night situation

TVTQ : How would you report containers with dangerous goods lost overboard?

A : My vessel has lost containers with dangerous goods of IMDG Class....in position....

TVUB : Liquefied gas cargoes will expand as the temperature increases and therefore tanks are not allowed to be filled to 100%. What is the maximum allowable filling limit for the cargo tanks on liquefied gas carriers?

A : Maximum allowable filling limit on cargo tanks is 98% on gas carriers.

TVUB : What is the maximum allowable filling limit on cargo tanks on gas carriers?

A : Maximum allowable filling limit on cargo tanks is 98% on gas carriers.

TVWK : What is the correct understanding of the term "Bottlescrew"?

A : He wants all the lashings tightened and two extra chains fastened to each container

TVWN : Some diesel engines have alarm and slow down protection in the event of a fire in the scavenge boxes. Choose the option which would be a typical set point for giving a slow down of the engine in the event of a scavenge box fire?

A : 120° C

TVXB : Which of the following preventive actions are required by the International Maritime Dangerous Guide Code?

A : All these actions are required

TVXB : Which of the following preventive actions are required by the International Maritime Dangerous Guide Code? Actions relating to the packing of the dangerous goods.

A : All these actions are required

TVYV : It is recommended to have special dirt-absorbing mats inside all doors leading to the decks and the engine. Why?

A : Helps keep accommodation floors clean longer.

TWGB : On a RoRo vessel, what is Maximum Securing Load?

A : The load capacity of a device used to secure cargo on board

TWGB : What is Maximum Securing Load?

A : The load capacity of a device used to secure cargo on board



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

TWHY : What is the possible concern if fuel tanks on a Bulk Carrier, which are close to cargo spaces containing grain, are excessively heated?

A : The grain cargo may be heated and damaged

TWIY : Fire protected lifeboats when waterborne should be capable of protecting its full complement when subjected to a continuous oil fire that envelops the boat for a period of not less than how many minutes?

A : 8 minutes

TWND : As a part of the preparation for bunkering, we are to empty the fuel oil overflow tank before the bunkering. Why?

A : In case of an overfilling.

TWOB : New MARPOL regulations came into effect from July 93 stating that the previous instantaneous rate of discharge of oil content (60 liters per nautical mile) was changed to:

A : 30 liters per nautical mile

TWPS : Among working conditions listed below which one is required for every propulsion engine of lifeboats?

A : Propeller disengaged and ahead or astern propulsion

TWRH : According to basic principles regarding fire protection the ship is to be divided in zones by structural and thermal boundaries. (SOLAS II-2/2.2.1)

A : In main vertical zones

TWRH : According to basic principles regarding fire protection the ship is to be divided in zones by structural and thermal boundaries. Which? (SOLAS II-2/2.2.1)

A : In main vertical zones

TWRI : Hydrocarbons belongs to a chemical group named:?

A : Keep a low pressure in the tanks at all times at sea and in port (periods of gas-freeing excepted)

TWSC : In a single side skin bulk carrier of 155m in length constructed in 2000 and carrying cargo of density 1010 kg/cu.m., which cargo hold can withstand flooding?

A : Any cargo hold

TWSC : In a single side skin bulk carrier of 155m in length constructed in 2000 and carrying cargo of density 1010 kg/cu.m., which cargo hold should be able to withstand flooding?

A : Any cargo hold

TWSG : Which item among those below is included in the normal equipment of every liferaft ?

A : six hand flares



TWSY : Before a mariphone is installed on board:

A : a license must be issued

TWTQ : The maximum height that a pilot should be required to climb on a pilot ladder before reaching the deck or stepping onto an accommodation ladder platform is:

A : 9 mtrs

TWUK : You have just completed the discharge of a cargo of Lube Oil additive and are clearing the ships lines to shore. What piece of equipment can be fitted between a drain cock and the air line to safely release any excess pressure before disconnecting the air line?

A : A three-way valve.

TWVL : The main purpose of a mariphone onboard is:

A : to enhance safety

TWWI : A high speed diesel engine has been subject to a major overspeed incident due to governor failure. During checks for damage it is found that some of the bottom end bolts have slackened off slightly. There appears to be no other damage to any of the bearings, the running gear or to the crankshaft. From the options given select the action to be taken before bringing the engine back into service.

A : Renew all of the bottom end bolts.

TWYO : A conventional reefer vessel, on passage to the loading port, should pre-cool the cargo spaces intended for shipment of the refrigerated products. Select from the options given, the one which best completes the following statement. In general, pre-cooling should commence....

A : ...about 48 hours before arrival with the temperatures in the cargo spaces stable for the last 24 hours.

TXCD : What is a fire wire?

A : Wire for pulling burning ships off the pier

TXIB : You are Sen.Off.Deck on a laden tanker. You have just been in a collision, and have a big leakage under waterline. What should you do to reduce the pollution as much as possible?

A : Level in the tank to be reduced as much as possible to reduce/stop any further oil spill.

TXJY : Welding and use of open flames on board tankers(without COW and IGS) in operation are subject to regulations laid down by the Norwegian Maritime Directorate (Norwegian Ship Control Legislation - NSCL). Which of the listed requirements regarding washing and gas freeing before hot work in cargo tanks corresponds to these regulations? (NSCL 22/1294/4).

A : All cargo tanks, pump rooms and cofferdams shall be examined by two type approved explosimeters.

TXKL : What is the main advantage of a positive pressure breathing apparatus?

A : If the face mask has a leak toxic fumes/smoke would still not enter the mask

TXLE : What can cause crewmembers to abdicate their safety roles?

A : Lack of leadership



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

TXLI : After smoking cigarettes they should be disposed of as follows:

A : Disposed of in an ashtray and ensuring that it is extinguished.

TXMD : What is the minimum volume of air contained in the cylinders of a SOLAS compliant self-contained compressed-air operated breathing apparatus (SCABA)?

A : 1200 litres

TXNC : The satellite orbit in the Inmarsat system is:

A : geostationary

TXTT : Which frequency is used for MF DSC distress calls

A : 2187,5 khz

TXUR : What is the main difference of deep well and submerged pumps?

A : The main difference is that deep well pumps are connected to the motor with a long shaft and submerged pumps have both pump and motor submerged down in the tank

TXYJ : The fuel tank contents gauges onboard a vessel are of the air bubble and bell type. The gauges are calibrated for a different fuel type to the actual fuel in the tanks. When correcting the actual contents of the tanks from the gauge readings which of the parameters given in the options is the most important?

A : Fuel density.

TYDR : If the oxygen content in an enclosed space is less than 20% and a non-essential routine inspection of the space is due which of the following is the correct course of action?

A : That they are kept under constant surveillance.

TYDR : If the oxygen content in an enclosed space is less than 20% and a non-essential routine inspection of the space is due which of the following is the correct course of action?

A : Postpone the inspection until the correct oxygen content can be achieved

TYEQ : A rocket parachute flare must have a rate of descent of not more than

A : 1m/s

TYFI : What does this crane signal indicate?

A : Raise the boom.

TYHB : A common expression is for example 2 across. What does this mean.

A : CT2, WT2 port, WT2 starboard.



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

TYHW : Why should water ballast not in general be carried in tanks intended for oil fuel in passenger ships?

A : Risk for pollution

TYIT : Which of the following actions should be done before throwing this type of inflatable liferaft over the side?

A : Check that the painter is made fast to a secure point and that the sea below is clear

TYIV : On the figure 4 possible definitions of the term "TUG TOWING LINE" are given. Which one is the correct one?

A : Tug towing line is given by D on the figure

TYNC : This vessel is sighted ahead and slightly to port. What is her situation? What will you do?

A : This vessel is aground. I will navigate with extreme caution given the nature of the hazard.

TYPE : Which one of the following materials belong to Class 6.1 according to the IMDG code?

A : Toxic substances

TYPV : Select, from the options given, the best method to be used for cleaning a cargo space on a conventional reefer vessel into which the cargo to be loaded is the same as the previous cargo carried.

A : Sweep clean the top of the hatch gratings and lift the gratings to sweep clean below them.

TYQG : Which oxygen content shall we measure before entering a tank or space after venting?

A : The oxygen content shall be measured to 21% by volume

TYRF : Name some liquefied gases that can be condensed against water.

A : Propane, Butane, Isobutane, Ammonia and some chemical gases as VCM, Propylene and Butadiene can be condensed against water

TYSV : Which group of dangerous goods is generally considered as being the most hazardous for marine transportation?

A : Organic peroxides

TYSV : Which group of dangerous goods is generally considered as being the most hazardous for marine transportation on a General Cargo Vessel?

A : Organic peroxides

TYTT : Why are we not condensing the boil-off on conventional LNG carriers?

A : Because of the high energy consumption needed to condensate the cargo.



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

TYTT : Why is the cargo boil-off vapour on conventional LNG carriers not condensed and returned to the cargo tanks?

A : Because of the high energy consumption needed to condense and recover the boil off.

TYTT : Why is the cargo boil-off vapour on conventional LNG carriers not normally condensed and returned to the cargo tanks?

A : Because of the high energy consumption needed to condense and recover the boil off.

TYXA : Generally the fixed sprinkler fire extinguishing system will be:

A : Wet pipe system

UAAG : In the Beaufort Scale of Wind Force, what is the Beaufort number associated with the wind force known as a "Gale"? This should not be confused with a "Near Gale" or "Strong Gale"

A : Eight (8)

UAAG : What is understood by the term "Dew point" of the air?

A : The temperature at which condensation in the air forms into water droplets.

UABH : What does the term "Dead Ship" mean?

A : Machinery and boilers out of operation due to lack of electric power

UABH : What does the term "Dead Ship" mean?

A : "Dead Ship" means that the machinery and boilers are inoperational due to lack of

UACB : Which of the following items is essential and should always be kept in stock?

A : Salt

UADA : Which food group contains the most calcium per 100 grams of edible product?

A : Dairy products

UADA : Which food group contains the most calcium per 100 grams serving?

A : Dairy products

UAGL : The word SATCOM is spelled conform the international phonetic alphabet:

A : Sierra, Alfa, Tango, Charlie, Oscar, Mike



UAHF : When you light a fire in a boiler, you must always

A : Use a proper torch

UAIF : How often is it necessary to strip off the floor polish completely?

A : It depends on wear and tear, but approximately every 12 - 18 month.

UANC : What do you think would be the most likely cause of high discharge pressure from a freon compressor?

A : Blocked condenser.

UAPX : What damages a ship's cargo holds?

A : Repeated stresses at a particular location

UAXF : Electric arc welding is to be carried out in the machinery spaces other than the workshop. Which of the alternatives below would be the correct procedure for the connection of the "return" cable to the welding set?

A : Any of the listed alternatives.

UAXV : Which one of the listed requirements regarding portable radio apparatus for survival crafts do not correspond to present regulations?

A : Transmitter and receiver to be tested with intervals of not more than one month

UBFL : Records relating to breaches of security and changes in security level must be secured against unauthorized access and available for review by contracting governments.

A : TRUE

UBHE : Which of the following detailed explanations should be mentioned in the Training Manual ?

A : The hazards of exposure and the need for warm clothing

UBKP : Which type of pump is best suited to use with an oily water separator?

A : Rotary positive displacement (mono type).

UBKW : What is class "A" division

A : Bulkhead constructed of steel, suitably stiffened and insulated so as to be able to meet a prescribed fire test of one hour duration

UBPI : The cargo manifold working platform surface should be made of:

A : Open mesh grating



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

UBQJ : When the engine room crane is to be utilised for lifting or lowering a piece of equipment to the lower decks through access hatches designed specifically for the purpose, there are certain measures that should be taken. What are they?

A : Securely rope off the area around open hatches and post notices at the site.

UBQJ : When the engine room crane is to be utilised for lifting or lowering a piece of equipment to the lower decks through access hatches designed specifically for the purpose, there are certain measures that should be taken. What are they?

A : All of the listed alternatives.

UBSU : What do you think would be the most likely cause of too low suction pressure in a freon compressor?

A : Too little gas in the system.

UBVG : What are the duties of engine room ratings forming part of an engine room watch?

A : To assist in the efficient and safe watchkeeping.

UBYW : Who is responsible for the number and the position of any tugs to be used during a mooring operation?

A : The Master

UBYW : Who is responsible for the number and use of tugs during mooring?

A : The Master

UCDU : The extinguishing agent which can be applied on any fires of class A, B, or C is:

A : Multipurpose powder

UCEW : Compressed air for instrument and control purposes needs to be of high quality. In order to condition the air filter modules are usually fitted to remove the contaminants. If there is evidence of oil carry over to the final elements in the instrumentation air system what is the most likely cause?

A : The coalescer module is saturated and requires renewal.

UCHC : What term is applied to solid foods, commonly vegetables, that have been mashed and stirred until smooth?

A : Puree.

UCIG : The peak pressure (maximum cylinder pressure) is often taken as an indicator of medium speed engine performance along with other parameters. What would be a typical peak pressure for a modern, highly rated, medium speed diesel engine?

A : 140 to 180 bar

UCWQ : You have just loaded a cargo of Toluene and are about to clear the lines into the ship. What particular hazard must you be aware of with this product?

A : It is a static accumulator and settling time must be allowed before gauging.



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

UCWQ : You have just loaded a cargo of Toluene on a chemical tanker and are about to clear the lines into the ship. What particular hazard must you be aware of with this product?

A : It is a static accumulator and settling time must be allowed before gauging.

UCWT : Transportation of oil at sea can be divided in two groups, which?

A : Crude oil and refined products.

UCXR : Which statement about IED's is true?

A : All IED's have four common components.

UDAD : Which one of the listed requirements regarding life-saving appliances corresponds to present regulations?

A : All prescribed life-saving appliances shall be made of non-combustible or fire retardant material

UDAD : Which one of the listed requirements regarding life-saving appliances do not correspond to present regulations?

A : All prescribed life-saving appliances shall be made of non-combustible or fire retardant material

UDCU : What is Centre of Floatation?

A : The centroid of the ship's waterplane area

UDCU : What is the Centre of Floatation of a General cargo Vessel?

A : The centroid of the ship's waterplane area

UDCU : What is the perforated box on the end of the bilge pipe in the bilge space of a general cargo ship?

A : Strum or Rose box

UDFB : Which electronic component or system is this graphical symbol illustrating:

A : Bandpass filter

UDFB : Which electronic component or system of components is this graphical symbol illustrating:

A : Bandpass filter

UDHS : Your ship is equipped with a single, right-handed fixed screw. Steaming full ahead you reverse the engine to stop the ship. How will the ship react? No wind or current.

A : She will most likely sheer to starboard and gradually lose headway



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

UDHW : Which of the following cargoes must be maintained at the highest temperature when carried on a chemical tanker?

A : Phenol.

UDJA : After clearing lines following the loading of cargoes such as Naphthas, Xylene, Toluene, Benzene, White Spirits and Kerosenes, it is necessary to wait for a specified period before taking manual ullages or samples. Why is this?

A : These are all "static accumulator" cargoes. As a cargo line is blown, electrostatically charged bubbles enter the tank and rise through the cargo, generating a high voltage at the surface. |

UDJL : Your vessel has been involved in a collision, and at first opportunity a lot of people from outside parties are asking questions. What shall you tell them?

A : Do not reply to any questions from outside parties, except the Solicitor appointed by your company.

UDKE : Responsible for on-scene coordination during search and rescue operations is:

A : On Scene Commander

UDLC : Which part of the fresh water quantity provided for each person the liferaft is permitted to accommodate may be replaced by a de-salting apparatus?

A : 0,5 l if the de-salting apparatus is capable of producing this quantity in 2 days

UDMX : Which of the following fittings shall be provided to all lifeboats:

A : handholds or a buoyant lifeline becketed around the outside, except in the vicinity of the rudder and propeller

UDNR : Reefer vessels form part of the cold chain in the transport of perishable goods from the producer to the consumer. There are times when hatches have to remain open in less than perfect conditions, for example strong winds. There are steps that can be taken however to mitigate the effects of this on cargo that has already been loaded. Which of the options given could be considered to be the most important measure to counter the effect of such conditions?

A : Cover the stow with a Tenasco (heavy plastic) sheet where possible to protect it from the wind.

UDOI : Which item among those below is included in the normal equipment of every liferaft ?

A : two buoyant smoke signals

UDQB : Which one of the following items has to be included in an abandon ship drill?

A : operation of davits used for launching liferafts

UDRS : What is the purpose of Material Safety Data Sheets?

A : To provide all personnel including emergency personnel with procedures for handling or working with that substance in a safe manner

UDSO : Fleetnet communication via the Inmarsat-system is an EGC among other things intended for all:

A : vessels of a certain shipping-company



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

UDSU : In case of fire in the switch board, what kind of extinguisant to be preferred?

A : CO₂

UDWT : What is a saturated hydrocarbons?

A : Saturated hydrocarbons are colourless and odourless liquids and they are chemically non-reactive

UDYO : How many lifejackets shall it be in a passenger cabin?

A : Same number as beds in the cabin

UEAJ : What will You do if the purifier starts to vibrate, or has heavy vibrations?

A : Stop the purifier immediately. Check the bowl for heavy side, deposits, bearings, housing, and the spindle for damage.

UECP : The International Convention for the Prevention of Pollution from Ships (MARPOL) covers detailed regulations to prevent various sources of ship generated pollution. Annex I - VI deals with regulations for the prevention/ control of pollution from:

A : Harmful Substances in Packaged Form, Sewage, Air Pollution, Garbage, Oil and Noxious Liquid Substances in Bulk

UEMR : Give the meaning of this symbol:

A : lifebuoy with light and smoke

UEOC : When are conveyor belts not used?

A : When loading bulk cement

UEOC : When a solid cargo that does not present a hazard is offered for shipment but is not listed in the International Maritime Solid Bulk Cargoes (IMSBC) Code, what information must the competent authority at the load port present to the Master?

A : All

UERN : What is characteristic for alkanes?

A : Alkanes has only single bond between the atoms

UETJ : What is the action that a GMDSS Radio Operator should take when a DSC distress alert is received?

A : The Operator should immediately set continuous watch on the radiotelephone frequency that is associated with frequency band on which the distress alert was received.

UFAB : When fastening synthetic fibre ropes such as polypropylene on bitts, for safety and better rope control it is recommended to:

A : Make two round turns fast on the leading bitt and then figure of eight on both bitts, fig. 4



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

UFAY : With full load on the main engine, the RPM for the turbocharger is too low. What may cause this?

A : The diffuser ring is damaged

UFBC : What number of fire hoses is required for cargo ships of 1000 tons gross and upwards? (SOLAS II-2/4.7.4.1)

A : One hose for each 30 meter length of ship plus one spare. Hoses for engine and boiler room in addition

UFBY : Data loggers are a vital part of the temperature control and monitoring system on a reefer vessel. In a situation where the data logger fails several days before the end of the voyage it is still necessary to maintain control of and monitor cargo temperatures. How could an accurate, portable thermometer be used to the best effect, to achieve this, in such a situation?

A : Use the thermometer to check and control the delivery air temperature by inserting it in the delivery air ducting close to the evaporators.

UFCO : What has to be done before the central gas extinguishing system is used on a fire in engine rooms, cargo holds or other confined spaces?

A : Make sure that the compartment has been evacuated

UFPP : The Code of Safe Practice for Cargo Stowage and Securing was prepared to give guidance in which of the following cases.

A : Preparation and content of the Cargo Securing Manual.

UFGR : Give the meaning of the following symbol:

A : lower liferaft to water

UFJI : Which entries shall the master make in the sea service book or record of service in connection with supervision of maritime service?

A : Entries regarding the seafarer's service time, vacation days due etc.

UFUC : What is the correct definition of "a mooring line"?

A : A thick rope to tie up the ship

UFUC : What is the correct definition of: - a mooring line?

A : A thick rope to tie up the ship

UFUW : When are ro-ro units most exposed to damage?

A : When being manoeuvred for stowage or breaking out of stowage

UFVT : After starting a freon compressor, how long should you wait before opening the oil separator return valve?

A : After the separator shell has warmed up.



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

UFXU : When considering how non-containerised perishable cargoes such as bananas and grapes are presented for loading the temperature of the cargo is important. Which one of the statements included in the options is correct?

A : Bananas are loaded at field temperature while grapes are pre-cooled.

UFYH : An alarm signal consisting of seven short blast followed by one prolonged blast is sounded by the ships whistle and alarm bells. What are you to do?

A : Go to your lifeboat station

UGCS : Which of the part(s) below - besides part 0- from the main sections 1 and 3 of the publication "Excerpts from The Norwegian Passenger and Cargo Ship Legislation, etc.", would you consider included in the term "Manning" ?

A : 16 and 28

UGCS : Which of the part(s) below - besides part 0- from the main sections 1 and 3 of the publication " Excerpts from the Norwegian Ship Control Legislation", would you consider included in the term "Manning" ?

A : 16 and 28

UGEC : Who shall request a maritime inquiry?

A : The master or owner if the master prevent or fail to do so.

UGEE : Where do you find provisions stating circumstances under which the master or chief engineer may be excepted from the provisions relating to hours of work on board ship?

A : In Act 3 June 1977 relating to hours of work on board ship, section 1

UGPX : How can a lead-acid type battery be checked to confirm if it is fully charged or not?

A : Measure the specific gravity of the electrolyte

UGQS : When should operational checks on navigation equipment be done?

A : Regularly, when preparing for sea and entering port

UGRW : During the normal operating cycle of a diesel engine there are side thrusts generated by the piston as it moves up and down the cylinder due to the changing angle of the connecting rod. How are these side thrusts accommodated in a trunk piston engine?

A : The side thrust is transmitted to the cylinder liner and the engine frame by the piston skirt in way of the gudgeon pin.

UGSI : In addition to personal equipment a firemans outfit also comprise breathing apparatus and a fireproof lifeline. How many complete sets of firemans outfit is to be carried by all ships? (SOLAS II-2/17.3)

A : At least two sets

UGTA : Your ship is approaching the berth as illustrated and has a right handed propeller and no thrusters. What could be a method to retain full control of the vessel as it comes alongside?

A : Let go starboard anchor 1 - 1,5 shackles



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

UGTA : Your ship is approaching the berth as illustrated and has a right handed propeller and no thrusters. What could be a method to retain full control of the vessel as it comes alongside?

A : - Let go starboard anchor to about 1 shackle on deck

UGTD : MARPOL 73/78 - Annex V. Disposal of garbage. Your vessel is in the Red Sea (Special Area) and the Chief Cook is requesting to have some food waste burned in the incinerator. Due to problems with incinerator, you decide to have the waste ground in the Grinder (Lump size max. 25 mm) and disposed off into the sea. Is this prohibited, if not, how far from nearest land is this legal?

A : 12 miles

UGVT : You are approaching the shore in a lifeboat when you see a person holding a white flag. He is moving it in a horizontal motion from side to side. What does this indicate?

A : Landing here is highly dangerous

UHDH : What are the duties of the watch-keeping engineer?

A : To keep constant surveillance of machinery and auxiliary systems.

UHFQ : When is a visitor onboard required to present an ID?

A : On SECURITY Level 1, 2 & 3

UHIG : How should the painter of a liferaft which is fitted with a hydrostatic release be secured to the ship?

A : Secured via a weak link to a secure part of the ship

UHJX : Some 4-stroke engines are fitted with a rotorcap on the cylinder head valves. For what reason?

A : Improve the scaling surface function, increase the service time of the exhaust valve in the engine

UHKQ : Liquid level in tanks is often measured by measuring the hydrostatic head or differential pressure. One method is the air bubble type which is illustrated here. Calculate the level in the tank, utilizing the figures given on the drawing.

A : 500 cm

UHKS : Which of the logic statements is correct for this pneumatic system?

A : $S = (A \text{ or } B) \text{ and } C$

UHLK : When should a spreader be used for general cargo operations?

A : When the length of a load is such that slinging it will create unacceptable bending moments

UHLS : Which of the following functions are chemical treatments for cooling water system designed to do?

A : Minimize corrosion, prevent deposits and scaling, and control of biologic. growth



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

UHPV : Which is the "AFT BREAST LINE", in the figure?

A : Aft breast line is defined as B on the figure

UHPX : There are two basic types of turbocharging systems: constant pressure and pulse. The main difference between the two is in which of the following?

A : A constant pressure system has a larger volume exhaust gas receiver

UHPX : There are two basic types of turbocharging systems: constant pressure and pulse. The main difference between the two is in which of the following?

A : The exhaust gas receiver.

UHPX : There are two basic types of turbocharging systems used for supplying combustion air to marine diesel engines: constant pressure and pulse. What is the main difference between these two types of system?

A : A constant pressure system has a larger volume exhaust gas receiver

UHPX : There are two basic types of turbocharging systems used for supplying combustion air to marine diesel engines: constant pressure and pulse. What is the main difference between these two types of system?

A : The exhaust gas receiver.

UHQ T : You are on a tanker constructed after 1985 and have a ODME installed. When discharging Annex I slop outside special areas, what statement is true?

A : Vessel should be underway, minimum 7 knots, discharge max 30 litres per nm and be 50 nm from shore. The discharge should take place above the waterline and total oil discharged should not be more than 1/30000 of total cargo.

UHRG : What should be done prior to loading structural steel products?

A : Dunnage of 7.5cm x 7.5cm cross section should be laid athwartships over the tank top about 3m apart

UHRG : What should be done prior to loading structural steel products on a General Cargo Vessel?

A : Dunnage of 7.5cm x 7.5cm cross section should be laid athwartships over the tank top about 3m apart

UHRI : Which one of the following requirements regarding lifebuoys corresponds to present SOLAS regulations ?

A : be constructed of inherently buoyant material

UIGQ : Which one of the listed entries in the radio log for radiotelephone station do not correspond to present regulations? Entries in the radio log shall include:

A : the condition and results of tests of the main radiotelegraph installation

UIHJ : How many types of membrane tanks systems do we have?

A : There is two types of membrane tank systems, Membrane system and semi-membrane system



UIKM : The ship is en route. When may passengers visit the bridge?

A : Passengers are not allowed to visit the bridge while the ship is en route

UIME : How will continuous low load operation influence the service interval of the cylinder covers on a 4-stroke engine?

A : Reduce the service interval.

UIMG : UFL and LFL are commonly used expressions. What do they signify?

A : Upper Flammable Level / Lower Flammable Level of explosive atmosphere?

UIOY : What is the most important factor influencing the HF range?

A : the frequency used

UIRD : A draw card obtained from a cylinder of a large 2 stroke diesel engine shows that both cylinder compression and maximum pressures are low. Cards from other cylinders indicate normal operation. What is the likely cause of this problem?

A : Fuel pump timing changed.

UISB : To inform ship of coast-stations messages, coast-stations give at fixed times:

A : a traffic list with the call-sign of the ships involved in alphabetical numerical sequence

UISC : Which of the following could cause a blowback from a steam boiler oil fired furnace?

A : Trying to ignite burner from hot brickwork

UISE : Which of the following could cause a "flareback"

A : Trying to ignite burner from hot brickwork

UISD : The word QUICK is spelled conform the international phonetic alphabet:

A : Quebec, Uniform, India, Charlie, Kilo

UIUE : A temperature control system is exhibiting hysteresis. Checks on all of the system components show that they are functioning correctly. Which of the changes/modifications given in the options is most likely to correct this problem?

A : Fit a valve positioner to the system.

UIVO : What is the first thing you would check when taking over a boiler watch

A : The water level



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

UIVT : When does a bulk carrier experience extreme tension in bottom structure during fast rate loading?

A : During loading of heavy cargo in midship hold

UJBJ : What is the emergency frequency on H.F. (High Frequency) Radio / Telegraphy?

A : 500 kHz

UJCJ : In a two stage compressor you will find pistons with different diameters (one is bigger than the other). Which one of the following statements is correct ?

A : The smallest diameter piston is the second stage piston.

UJJC : In a two stage compressor you will find pistons with different diameters (one is bigger than the other). Which one of the following statements is correct ?

A : The smallest diameter piston is the stage two piston

UJDB : How should a crew member on duty prevent scratching vehicles?

A : By not wearing or carrying any external metal accessories

UJDB : On a RoRo vessel, how should a crew member on duty prevent scratching vehicles?

A : By maintaining a safe distance from all vehicles and being careful when near vehicles

UJDD : You are transiting a narrow channel. What can happen in this situation?

A : The bow will be pushed away from the bank

UJDX : What would be considered to be the normal service life for rolling contact bearings fitted to a large turbocharger for a diesel engine?

A : 8000 - 12000 hours.

UJET : A drip tray containing oil is on fire. The only fire fighting equipment available is water hose with spray jet/spray nozzle. How, if at all, should you attempt to put out this fire using water?

A : The water can be applied in a fine spray starting from the front in a sweeping motion.

UJGH : Which item among those below is included in the normal equipment of every liferaft ?

A : one rustproof graduated drinking vessel

UJGM : Which of the following requirements regarding life-buoys correspond to present regulations? (SOLAS III/7.1)

A : All life-buoys shall be placed in holders with quick-release arrangement



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

UJGM : Which of the following requirements regarding life-buoys do NOT correspond to present regulations? (SOLAS III/7.1)

A : All life-buoys shall be placed in holders with quick-release arrangement

UJIW : VHF CH 70 ALL SHIP SAFETY 2275200 G3E NO INFORMATION FIRE CH13 EOS What is false regarding the above call ?

A : A ship receiving this call must set watch on channel 16

UJMG : Which of the following is the correct minimum carriage requirement for a ship of more than 300 gross tons and operating in area A:

A : 1 VHF RT + DSC+ DSC watch receiver - 1 or 2 SART - 1 NAVTEX or 1 EGC receiver- 2 or 3 VHF portable - 1 EPIRB

UJNW : When with a radio telex-connection with a coast-station ga+? appear on the screen:

A : A command as dirtx...+ can be given

UJPQ : What is the optimum cargo lashing angle against sliding?

A : Around 25°

UKAG : The specified maximum working pressure of a cargo hose in service on a chemical tanker should be at least which of the following?

A : 10 bar gauge.

UKAG : The specified maximum working pressure of a cargo hose in service should be at least which of the following?

A : 10 bar gauge.

UKAI : For what purpose do we have booster pumps on the cargo discharge line onboard gas carriers?

A : On gas carriers we have booster pumps on the cargo discharge line to increase the discharge line pressure above shore back pressure.

UKAP : What is the purpose of a sea anchor?

A : To keep the lifeboat steady against the sea/wind

UKEO : What is the most important consideration when planning the lashing system for a particular sea route?

A : Transverse accelerations

UKEO : What is the most important consideration when planning the lashing system for a particular sea route on a General Cargo Vessel?

A : Transverse accelerations



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

UKEO : What should one consider when planning the lashing system for a particular sea route, on a general cargo vessel?

A : The effects of transverse accelerations

UKEV : Which item among those below is included in the normal equipment of every rescue boat ?

A : a buoyant bailer

UKKA : What is the disadvantage of using High Tensile Steel (HTS) in the construction of bulk carriers?

A : HTS is prone to fatigue cracking

UKNN : What is the main reason that LPG boil-off gas is unsuitable for use in the vessels fuel supply?

A : LPG vapour is heavier than air at atmospheric conditions and represent a risk as they may accumulate in machinery spaces.

UKOA : One of the tubes in a seawater cooled condenser is leaking due to being holed half way along its length. What is the most appropriate onboard repair method to be used from the options given?

A : Blank off the leaking tube at both ends using suitably tapered brass plugs.

UKPQ : Due to the safety of the ship its crew and passengers it is only permitted to in designated areas onboard

A : Smoke

UKQF : How do the extinguishing agents act?

A : by cooling, smothering, combustible suppression, inhibition

UKRC : The circuit symbol is a driver for a solenoid (coil) of a solenoid valve S. What is the purpose of the diode IN 4002 connected in parallel to the solenoid S?

A : Blocking inductive kick from the solenoid

UKSI : What would describe a ship taking in water on the high seas?

A : The message means the yacht has been overturned in heavy seas

UKTR : If properly secured what benefits do car carriers have over other ship types regarding seaworthiness?

A : They can roll to very large angles without taking in water

UKTR : If properly secured what benefits do high sided car carriers have over other ship types regarding seaworthiness?

A : They can roll to very large angles without taking in water



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

UKTR : If their ramps, watertight doors, etc. are properly secured, how are pure vehicle carriers different from other ship types?

A : They can roll to very large angles without taking in water

UKUK : Inert gas should be supplied with an oxygen content of less than:

A : 5 %

UKUM : What is most important when preparing for emergencies?

A : That people are well trained.

UKUR : On a RoRo vessel, what must be ensured so that vehicles are not damaged on the loading ramp?

A : The ramp angle must not exceed its safe working limit

UKUR : What must be ensured so that vehicles are not damaged on the loading ramp?

A : The ramp angle must not exceed its safe working limit

UKWC : The HP discharge valves sometimes get very carbonized in a very short time and continue to do so even when we change the HP valves very frequently. What might be the reason ?

A : Worn scrapper and piston rings.

UKWD : There exists an unqualified obligation to assist persons in distress, but does the Master have an obligation to assist in towing a vessel?

A : The Master has no obligations to assist in towing a vessel

UKWD : There exists an unqualified obligation to assist persons in distress, but does the Master have an obligation to assist in towing of a vessel?

A : The Master has no obligations to assist in towing a vessel

UKWE : What initial simple recommendation can we give to reduce oxygen in the boiler water?

A : Raise the feed water temperature.

UKYM : Welding and use of open flames on board tankers in operation are subject to regulation laid down by the Norwegian Maritime Directorate (Norwegian Ship Control Legislation - NSCL). Which of the listed requirements regarding washing and gas freeing before hot work in cargo tanks corresponds to these regulations? (NSCL 22/1294/6).

A : No welding or hot work on board ships carrying cargo with flashpoint below 60° C must take place in the tank area before the cargo has been discharged and gas freeing carried out.

ULBE : What is the maximum volume percent oxygen we can have on the inert gas for consume on a gas carrier?

A : Maximum volume percent oxygen must not exceed 5 percent



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

ULCC : The reliquefaction plant for cargo cooling of liquefied gas cargoes can operate on either a direct or indirect cycle. On which liquefied gas cargoes must indirect cycle cargo cooling plant be used according to the IMO Gas Codes?

A : Indirect cargo cooling plant is utilised on cargoes that can not be compressed or be expelled for high temperature

ULCY : Different packaging methods are used for the various perishable commodities which are carried by reefer vessels. What type of perishable commodity is usually packed in a cry-o-vac?

A : Chilled meat products

ULFK : What is the purpose of a draught survey?

A : To calculate the quantity of bulk cargo loaded or discharged

ULFK : What is the purpose of a draught survey on a bulk carrier?

A : To calculate the quantity of bulk cargo loaded or discharged

ULGG : What is the approximate API gravity of Arabian Light Crude?

A : 33 degrees.

ULIC : What is fishmeal prone to?

A : Liquefaction due to vibration or compression

ULIO : The safety valve on a steam boiler shall:

A : Open, when pressure in the boiler is in excess of normal working pressure.

ULJL : How often shall liferafts be serviced?

A : At intervals not exceeding 12 months

ULLE : Which of the following are exclusively intership RT channels :

A : channels 06, 08, 72, et 77

ULNN : What is a Marine Evacuation System?

A : Evacuation Chute(s)/Slide(s) and Liferrafts

ULQI : Before departing the berth to ensure the stability of a RoRo vessel which if the following should be completed

A : Close all Ramps and hatch covers



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

ULQI : How are cargo holds, above the freeboard decks of car carriers, segregated?

A : By means of gas-tight doors

ULRC : LNG carriers are provided with an automatic shutdown system for the cargo tanks. What is the purpose of this automatic trip system?

A : To automatically stop the flow of cargo to the tank to prevent the tanks overflowing.

ULRC : What is the purpose of automatic trip system onboard, and how does it function?

A : Automatic trip is to avoid tanks and pressurised vessels becoming overloaded, the trip function is often initialised by a float switch.

ULUT : A data logger printout is being checked against the sensors in a refrigerated cargo space. The pulp temperature and the return air flow temperature are being considered. It is necessary to identify the return air sensor. Which of the options gives the best description of the normal form that such a sensor would take?

A : A tube completely covered in a rubber housing which is usually black.

ULVF : Once a ship (equipped with self-stowing auto-tension winches) is moored alongside a loading or discharging berth, it is recommended that:

A : All winches be left with the manual brake on and gear out

ULVF : Once a ship (equipped with self-stowing autotension winches) is moored alongside a loading or discharging berth, it is recommended that:

A : All winches be left with the manual brake on and gear out

ULWC : Which word will precede a routine message ?

A : No specific word will precede a routine message

ULXP : For what purpose do we have booster pumps on the cargo discharge line?

A : To increase discharge discharge line pressure above shore back pressure.

ULXU : Which of the following fittings shall be provided to all lifeboats:

A : a boarding ladder that can be used at any entrance for persons in the water

UMCB : Boil-off gas is produced when carrying LNG cargoes due to heat leakage across the insulation of the cargo tanks. What is the most common way of dealing with the LNG boil-off gas?

A : It used as fuel for the ship.

UMCB : What is the most common way of handling the LNG boil off gas?

A : It used as fuel for the boiler.



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

UMFH : Which one of the listed requirements regarding enclosures of totally enclosed lifeboats do not correspond to present regulations? The totally enclosed lifeboats shall:

A : have self-bailing arrangements

UMGS : What is this?

A : The United Nations Packaging symbol used for Dangerous Goods.

UMHW : Give the meaning of the following symbol

A : Foam monitor gun

UMJJ : Which push-button valve A, B or C must be pushed (operated) in order to activate movement of the pneumatic cylinder S?

A : B

UMJJ : Which push-button valve A, B or C must be pushed (operated) in order to obtain movement of the pneumatic cylinder S?

A : B

UMKH : The pressure inlet to a pressure gauge is varied from zero to full scale and back to zero again. The output (indicating pressure) versus true pressure is shown in the diagram. The non - coincidence (mis - match) of loading and unloading curve is due to internal friction in the instrument. What do we call this phenomenon?

A : Hysteresis

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A : Hysteresis

UMKY : Which of the following statements is correct with respect to IMDG cargo, loaded on a General cargo vessel, that is also classed as a Marine Pollutant

A : Cargo must be loaded in a protected location and preferably under deck if IMDG Code allows

UMLU : The Company should ensure that the ships personnel are able to communicate effectively in the execution of their duties related to the Safety Management System. What does it really mean?

A : All personnel on board shall be familiar with the Safety Management System. The individual seafarer shall know procedures specifically related to their rank and duties onboard.

UMMV : On all ships any crew member must be given an on-board training in the use of the ships life-saving appliances as soon as possible after his joining

A : not later than 1 month



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

UMNT : These circuits are all active filters. Which of the circuits is a high-pass filter?

A : Figure 1

UMNT : These circuits are all active filters. Which of them is a high-pass filter?

A : Figure 1

UMOA : Who should operate ships ramps, car platforms, retractable car decks and similar equipment?

A : Only competent persons authorised by a responsible ships officer, in accordance with the companys work instructions.

UMOO : If the A.C. line current in a generator is doubled, the heating effect in the stator windings will:

A : Quadruple

UMOO : If the A.C. line current in a generator stator is doubled, the heating effect in the stator windings will:

A : Quadruple

UMSK : What is the name of this unit?

A : A hydrostatic release unit

UMSP : Why is it preferable to use white spirit rather than paraffin to remove traces of grease during cleaning of refrigerated cargo spaces?

A : White spirit does not leave an oily residue or odour.

UMVC : Select the right send and receive frequencies for sending the routine ship/ shore MF-DSC message:

A : TX: 2189.5 kHzRX: 2177.0 kHz

UMWW :Which of the following information shall be specified by the muster list ?

A : which officers are assigned to ensure that life-saving and fire-fighting appliances are maintained in good condition

UMXY : What is the typical size of a LNG carrier?

A : 125,000 - 145,000 cbm.

UNAE : How would you correctly describe damage to the vessel?

A : My vessel has sustained damage to shell plating below the waterline in way of No. 3 cargo hold, starboard side



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

UNAE : Which of the following answers would most appropriately describe shell plating damage to the vessel?

A : My vessel has sustained damage to shell plating below the waterline in way of No. 3 cargo hold, starboard side

UNAG : Unconscious casualties who are breathing and whose hearts are beating should be placed in the Recovery Position. What is the Recovery Position?

A : As shown in figure 1.

UNBX : A compressed air supply system has two automatically controlled air compressors. When demand is high both compressors are needed to meet the delivery requirements. What is the best method for controlling the compressors to meet a varying, but intermittent demand?

A : Sequential start initiated by pressure switches set at different switching pressures.

UNBX : A compressed air supply system has two automatically controlled air compressors. When demand is high both compressors are needed to meet the delivery requirements. What is the best method for controlling the supply from these compressors to meet a varying, but intermittent demand?

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UNCQ : What do you understand by the term "Risk Assessment", and how would this be carried out on board?

A : Identify the hazards, quantify the risks, put control measures in place, monitor the work

UNCQ : What do you understand by the term "Risk Assessment", and how would this be carried out on board?

A : Identify the hazards, quantify the risks, put control measures in place, monitor the work activity and review

UNCR : How often must a lifeboat drill be carried out on a British ship?

A : Monthly

UNHM : On board reflections in the ionosphere can be used determine i.a.:

A : a frequency

UNIK : Replies from life-saving stations or maritime rescue units to distress signals made. What is the meaning of the signal?

A : You are seen - assistance will be given as soon as possible

UNIL : What is the lowest allowed flashpoint for fuel oil used in the ships main engine? (SOLAS II-2/14.1.1)

A : 60°C

UNIM : On a conventional reefer vessel is possible to ventilate the cargo spaces with fresh air using fans and trunkings. One of the reasons for using fresh air ventilation is to control the relative humidity within the cargo space. Select the option which best completes the following statement. "It is beneficial to be able to control the relative humidity within the cargo space because fruit cargoes should be kept"...

A : ...relatively moist to avoid the cargo dehydrating during the passage.



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

UNIP : LNG vessels of type 2G, as defined by the IGC code, are required to have a certain level of damage survival capability based on the hazard rating of the cargo. How is the survival capability of a 1G vessel increased over that of a 2G vessel?

A : The cargo tanks are a greater distance from the side shell.

UNIP : What is usually the effect on G when the ship is damaged?

A : It is unchanged.

UNJE : Fire protected lifeboats when waterborne should be capable of protecting its full complement when subjected to a continuous oil fire that envelops the boat for a period of not less than how many minutes?

A : 8 minutes

UNKG : According to the SOLAS definition, what is an incombustible material?

A : A material that neither burns nor emits flammable fumes in such a quantity as to experience ignition, when the temperature rises to 750 °C

UNMM : An Oil Record Book, Part 1 shall be provided to every ship of 400 tons gross tonnage and above to record machinery space operations. Out of below mentioned operations, it is compulsory to record:

A : Bunkering of bulk lubricating oil.

UNNC : Why should all bulk cargoes be trimmed and levelled on completion of loading?

A : To reduce the possibilities of the cargo shifting at sea

UNNC : Why should all bulk cargoes be trimmed and levelled on completion of loading?

A : To reduce the possibilities of the cargo shifting at sea

UNNK : On which channel a ship must maintain a continuous watch when sailing in area A1?

A : 70

UNQS : To which document does the following clause relate? "The contract is subject to Norwegian laws and Norwegian courts, but cases concerning the employee service on the ship may be brought against the owner before a Norwegian court or before a court in the employees country of residence. The agreement as mentioned in the first sentence is not a hindrance to a case being brought before a court in another country when it ensues from the lugano Convention that such action shall be permitted"

A : To individual employment agreements for service on NIS ships

UNQS : To which document does the following clause relate? "The contract is subject to Norwegian laws and Norwegian courts, but cases concerning the employee service on the ship may be brought against the owner before a Norwegian court or before a court in the employees country of residence. The agreement as mentioned in the first sentence is not a hindrance to a case being brought before a court in another country when it ensues from the lugano Convention that such action shall be permitted"

A : To individual employment agreements for service on NIS ships

UNQV : Who is the leader of the lifeboat drill (abandon ship drill)?

A : The appointed lifeboat commander.



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

UNRT : What should the ship be provided with when intending to load coal?

A : Means for measuring cargo temperatures

UNRT : When loading coal on a Bulk Carrier, what should the ship be provided with?

A : Means for measuring cargo temperatures

UNUM : What would be the correct form of response to the question: What is the visibility in your position?

A : The correct form of response would be: Visibility in my position is two hundred meters

UNWO : From the pressure gauges shown can you tell what is the oil pressure in a freon compressor?

A : 2.0 bar

UOHQ : Which of the options given is most likely to result in overheating of a ball bearing fitted to a pump shaft?

A : Completely filling the bearing with grease.

UOHS : What is the purpose of the carving note?

A : To prove that the vessel has had the official number and net tonnage marked into a main beam, and that the ship's name has been marked on both bows and on the stern and the port of choice marked on the stern.

UOJH : Which is the "STARBOARD BOW", in the figure?

A : Starboard bow is given by A on the figure

UOKC : The International Convention for the Prevention of Pollution from Ships (MARPOL) covers detailed regulations to prevent various sources of ship generated pollution. Annex I - VI deals with regulations for the prevention/ control of pollution from:

A : Harmful Substances in Packaged Form, Sewage, Air Pollution, Garbage, Oil and Noxious Liquid Substances in Bulk

UOTL : You are driving a crane and the signalman on deck gives this signal. What does it mean? (Hand signals as per the Code of Safe Working Practices for Merchant Seamen).

A : Danger, or emergency stop!

UOUV : What is the minimum average distribution capacity of a fixed water-spraying fire-extinguishing system fitted in an engine room ?

A : 5 litres / m²/ min

UPAR : If the Radar scanners of one vessel are in the same horizontal plane as the cargo deck of the other during transfer operations, which type of radar emissions would pose a greater danger of the induced ignition of flammable vapours?

A : a 10 cm radar.



UPAV : Give the meaning of the following symbol

A : Start air supply

UPCJ : What does the abbreviation VHF means ?

A : Very High Frequency

UPCM : What is the correct procedure to extinguish a soot fire in the exhaust boiler?

A : Reduce speed, let circulating pump run and use soot blowers.

UPEB : Which is the "CAPSTAN", in the figure?

A : Capstan is given by A on the figure

UPEI : What is the time limit for abandonment of ro-ro passenger ships?

A : 30 minutes from the time the abandon ship signal is given

UPGP : If a ship according to the rules of GMDSS is equipped with an MF/HF radio set a DSC listening watch must be kept on:

A : 8414.5 kHz and on at least one of the following DSC frequencies: 4207.5 kHz, 6312.0 kHz, 12577.0 kHz or 16804.5 kHz

UPJH : What name is given to the part of the discharging operation on an oil tanker when the last remaining contents of a tank are being pumped out?

A : Stripping

UPJH : What name is given to the part of the discharging operation on an oil tanker when the last remaining contents of a tank or line are being pumped out?

A : Stripping

UPLP : Where do we find information about the ships fire preparedness?

A : In the Fire and Safety instruction manual

UPNE : The ship is en route. When may passengers visit the bridge?

A : Passengers are not allowed to visit the bridge while the ship is en route

UPOC : If some of the passengers are disabled, i.e. using wheelchair, cane, blind etc. What precaution should the crew take?

A : All passengers that will require some form of assistance in case of evacuation, etc. must be registered, so there can be sent crew to assist them if needed.



UPQG : What does a "compactor" do?

A : It crushes and compresses garbage, such as food packaging, into a more manageable shape and form prior to disposal.

UPUT : From the options given, select the one which best completes the following statement. A seaman who is required to work in a hatch containing perishable goods should wear gloves that are...

A : ...clean.

UPVQ : The batteries must be placed in a well ventilated place, so that:

A : the detonating gas can be discharged

UPVR : On a Container vessel, what would affect the proper functioning of a bridge fitting?

A : Buckling

UPVR : What would affect the proper functioning of a bridge fitting?

A : Buckling

UPXL : What should be the first action to be taken in the event of the water level disappearing out of the boiler water level gauge glass?

A : secure all burners

UPYX : What would be the most probable cause of bluish exhaust gas?

A : Too much lub oil in one or more cylinders.

UQAA : After a discharge of a cargo of bananas there are a large number of cartons of condemned fruit left on deck. The vessel is not in a special area and is more than 100 miles from land. Select from the options given the most appropriate action to take to dispose of the condemned fruit.

A : Remove and retain any plastic packaging before dumping the condemned cargo overboard.

UQAA : Fruit, which is easily damaged, is usually packed into cardboard cartons that have various cut outs which are removed when the fruit is packed. From the options given select the one which is the main reason for these cut outs in the cartons.

A : To provide adequate ventilation for the fruit through the carton.

UQAQ : On area A2 the function " Transmission and reception of signals for locating " is mainly based on:

A : the use of SART transponders

UQEW : Which of the below word(s) is defined as follows: "Service on board a ship which gives the knowledge, insight and skills required for the issue of a certificate or other document referred to in these regulations"

A : Seagoing service



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

UQGM : The display of a radiotelephone-installation shows the following selections: Transmitting mode: H3E Transmitting frequency: 2187,5 kHz The transmitting mode indicator is "flashing". This can mean that:

A : The transmitting mode is not compatible with the chosen frequency

UQLK : What is true if a chemical has a odor value (ov) of 10 ppm and a threshold value (tlv) of 5 ppm.

A : You will get harmed by the fumes before you are able to smell it.

UQMH : Can a safety committee give a safety officer specific instructions

A : They may require him to make a safety inspection and report his findings

UQNE : In the chemical industry the effect on a person of long term exposure to low concentration of a substance is of prime concern. The expression TLV (Threshold Limit Value) is used to express the concentration of a substance in parts per million that must not be exceeded if a person is exposed to a substance for a period of:

A : 8 hours a day?

UQNI : Which of the following effects is likely caused by oil contamination in the boiler water?

A : It adheres to the boiler tubes and reduce the heat transfer. It combines with solids to produce sticky deposits.

UQUR : The most important preparation prior to Arrival to / Departure from ports is:

A : Start an additional auxiliary engine

UQUT : Service as master on board a NIS-ship for non-Norwegian citizens has to be approved by:

A : The Norwegian Maritime Directorate

UQXF : Silencing by a station, not in charge of the distress-traffic, is done as follows:

A : SILENCING DISTRESS followed by the silencing station's call-sign

UQXI : All cargo hatch covers on a bulk carrier are to be hose tested in the presence of a surveyor, prior to loading a cargo of steel coils; what should be done to the hatch covers before the test?

A : Fully secured to a sea-going condition with all side cleats (if any) fitted

UQYV : What would be considered as vital areas for the ratings to keep under constant watch during SPM loading operations?

A : Forecastle head, manifolds, maindeck?

URMH : What are the symptoms that would indicate the filter/drier unit in a refrigeration system was becoming blocked?

A : A large temperature drop across the drier.



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

UROS : The turbocharger on a diesel engine is making occasional, loud "whoofing" noises. Which one of the options given is the most probable cause of this?

A : Heavy seas from behind

UROS : The turbocharger on a diesel engine is surging and making occasional, loud "whoofing" noises. Which one of the options given is the most probable cause of this?

A : Heavy seas from behind

URQL : Which one of the listed requirements regarding lifebuoys do not correspond to present regulations? (SOLAS III/31)

A : Every lifebuoy shall be constructed of inherently buoyant material or have sufficient air compartment for buoyancy

URQM : The lubricating oil on the exhaust side of the turbine blower gets very dirty after only a few hours in service. What can the reason be?

A : Exhaust gas leaking into the oil chamber

URSV : By running a centrifugal pump what will happen if the NPSHA (Net positive suction head available) is less than NPSHR (Net positive suction head required) ?

A : 20.000 tons

URVO : The "squelch" adjustment on the front panel of a mariphone serves to:

A : adjust the noise threshold of the mariphone receiver

USQH : Which one of the listed requirements regarding inflatable liferafts corresponds to present regulations? Every liferaft shall be so constructed that:

A : when floating in the inverted position it can be righted by one person

USQI : Automatic amplifier regulation is used for the following reasons:

A : with weak incoming signals distortion is reduced

UTBA : The Training Manual shall contain instructions and information on the life-saving appliances and the best method of survival. The training manual shall contain detailed explanations of crew duties in relation to emergency situations. Which of the following tasks or duties shall be included in the manual according to present regulations?

A : The method and use of sea-anchors (drogues).

UTBD : Does OPA90 apply to vessels engaged in carrying liquefied gas?

A : OPA90 applies to all ships.

UTHW : During loading of a palletised refrigerated cargo it is noticed that some of the pallet boards are badly damaged. Which one of the actions, from the options given, is the most appropriate?

A : Remove and repair or replace the damaged pallets before loading them.



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

UTNB : Ro-ro passenger ships shall either carry automatically self-righting liferafts or canopied reversible liferafts. What does it mean that a liferaft is automatically self-righting?

A : The liferaft will automatically turn back into an upright position when it is empty of people

UTNK : When cleaning boiler burner nozzles that have just been in service the watch rating notices that the nozzle holes are partially blocked. Which of the methods given in the options is the preferred method to use in order to avoid damaging the nozzle holes?

A : Use cleaning wires starting with a small gauge and gradually work up to the full size of the nozzle hole.

UTOQ : What does normally form the basis for permission to a Non-Norwegian deck or marine engineer officer to serve in a position for which a certificate of competency is required on NIS ships?

A : A certificate issued by the authorities of a state which has acceded to the STCW-Convention

UTRU : If a master initially responds to a distress but then, in special circumstances, decides not to proceed, what must he then do?

A : - Inform the appropriate search and rescue authorities of his decision and enter the reason in the ship's logbook.

UTYN : What is most important for visual search purposes?

A : Design of individual search pattern

UUAG : What would be a typical value for the set point for shut down of a large 2-stroke diesel engine due to thrust bearing high temperature?

A : 85° C

UUAM : What is the necessary precautions to prevent sootfire in the exhaust boiler?

A : All the mentioned alternatives.

UUBH : What is static amplifying

A : Change in output signal divided by change in input signal

UUCY : The circuit consists of two inductors, $L(1) = 6 \text{ H}$ and $L(2) = 12 \text{ H}$, in series. Calculate the equivalent $L(S)$ of the inductors.

A : $L(S) = 18 \text{ H}$

UUCY : The circuit consists of two inductors, $L(1) = 6 \text{ H}$ and $L(2) = 12 \text{ H}$, in series. Calculate the equivalent total inductance.

A : $L(S) = 18 \text{ H}$

UUHU : The word NAVTEX is spelled conform the international phonetic alphabet:

A : November, Alfa, Victor, Tango, Echo, X-ray



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

UUMY : In most colour coding systems for kitchen knives, what colour is used to indicate those used only for preparing raw meat?

A : Red.

UUMY : In most colour coding systems for kitchen utensils, what colour is used for knives used only in the preparation of raw meat?

A : Red.

UUOJ : What will happen if Phenol is overheated ?

A : It will be discolored and turn pink.

UUOU : Why should you wear your catering uniform and not your ordinary clothes in the galley?

A : If you do wear your ordinary clothes in the galley, food odours will be transferred to your cabin and germs may be transferred into the galley from less hygienic areas.

UUTJ : Some spaces and zones on a liquefied gas carrier are classed as gas-dangerous as it is likely that they may contain flammable vapour and do not have venting arrangements to prevent this. What is the designation used for the other spaces and zones on liquefied gas carriers?

A : Gas-safe.

UUVD : What can be done to effectively reduce the build up of ice on containers during sea passage?

A : Reduce speed, whilst maintaining course

UUVD : What can be done to effectively reduce the build up of ice on containers during sea passage on a container vessel?

A : Reduce speed, whilst maintaining course

UUVD : What can be done to effectively reduce the rate of ice accretion on containers during loaded sea passage?

A : Reduce speed

UUVX : What should you ensure prior to battening down hatches for sea passage?

A : That cargo clusters have been removed from all cargo spaces

UUXR : What can be measured by means of a manometer?

A : Pressure

UUYI : If conditions permit, which is the best way to board a liferaft which is floating close to the ship?

A : Use a rope ladder close to the raft to climb down and board



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

UUYJ : A 6-men inflatable liferaft shall be carried as far forward as is reasonable and practicable. Where is the best stowing position?

A : Under the forecastle.

UUYM : After successful synchronising an incoming machine the kW and kVar loading are respectively transferred by the following controls:

A : Speed governor and voltage regulator

UUYM : After successful synchronising the kW and kVar loading are respectively transferred by the following controls:

A : Speed governor and voltage regulator

UVAC : What is the flash point of a Class 3.1 substance?

A : Lower than -18°C

UVBV : The input of an area code prefix in (radio)telex-traffic:

A : differs for each country

UVBY : What are the workers duties in respect to personal protective equipment

A : They must wear the protective equipment or clothing supplied when they are carrying out a task for which it is provided and follow appropriate instructions for use

UVCC : What is the characteristic of alkanes?

A : Alkanes has only a single bond between the atoms.

UVCQ : On board a ship, how many lifebuoys can you expect to be fitted with a buoyant lifeline ?

A : the two lifebuoys of the quick-release system and at least two other ones, one on each side of the ship

UVCQ : On board a ship, how many lifebuoys is required to be fitted with a buoyant lifeline ?

A : the two lifebuoys of the quick-release system and at least two other ones, one on each side of the ship

UVFA : A Ship Security Assessment is integral to the creation of your ship's security plan.

A : TRUE

UVJL : What advantages do you see by conducting passenger muster's. Drills are mandatory for international voyage's.

A : The passengers get familiar with emergency procedures, life jackets, musterstation. And the crew get training in crowd handling.



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

UVMW : The internal e.m.f. generated in the phase windings of a lightly loaded a.c. generator is controlled by:

A : The prime mover speed and excitation current.

UVRP : A general cargo ship is being loaded in Singapore for Hong Kong; which is the preferred order of loading for the following cargo types in the same hold?

A : Top stow: CKDs (packaged cars), Middle stow: Pallets Machinery parts, Bottom stow: Steel slabs

UVSM : A company must update its Safety Management System and Manual:

A : whenever regulations change

UVUG : Read the text in the frame before answering the question: What is needed to set the searchlight on quality and safety?

A : That safety work is lively backed by public opinion.

UVWF : What is a "closed discharge" operation on an oil tanker?

A : A discharge operation carried out without opening any lids or sighting ports and where gauging is performed either by a fixed system or by a portable system gaining access through a vapour-loc

UVWF : Which of the following statements describes a "closed discharge" operation on an oil tanker?

A : A discharge operation carried out without opening any lids or sighting ports and where gauging is performed either by a fixed system or by a portable system gaining access through a vapour-loc

UVWR : What is the requirement for bolting/securing of the blind flanges on the cargo manifold during cargo operation?

A : All bolts to be in position and tightened?

UWDG : What does SBT mean?

A : Segregated ballast tanker.

UWLS : Where shall shore side fire-fighting personnel find necessary information on the ships fire control in an emergency situation? (SOLAS II-2/20.2)

A : Copy of the fire control plans/folders to be stored in a watertight prominently marked container outside the deck house

UWLX : The J3E mode is used:

A : for ship-shore telephone-traffic on the MF/HF bands

UWMR : What publication must be carried on a vessel carrying dry bulk cargoes?

A : IMO Solid Bulk cargo Code or IMO Solid Bulk?



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

UWQB : What is the disadvantage of using High Tensile Steel (HTS) in ship construction?

A : Enhanced vibration in HTS areas

UWQP : A drawn indicator diagram from one of the main engine cylinders is as shown. What kind of steps are necessary to rectify the failure?

A : Overhaul the unit to determine faults such as: piston ring blow-by, exhaust valve malfunction, clogged scavenging ports, delayed ignition etc.

UWQU : Based on price, where would you avoid buying beef?

A : Ulsan, Korea

UWVH : What ingredient, made from durum wheat, is commonly used as an alternative to rice with north-African dishes?

A : Couscous.

UXCM : For what purpose might line displacement or line pressing be conducted prior to the discharge of cargo from an oil tanker?

A : Push shore line content to shore tank or compare the ship's/shore flow measurements.

UXDK : Your vessel is at anchor. It is dense fog and visibility about 2 cables. On your radar screen you can see a vessel approaching the anchorage and the vessel is heading at your position. What will you do?

A : Sound three blasts in succession, namely one short, one prolonged and one short blast

UXEF : If Mouth - to - Mouth (M-T-M) ventilation by itself is unsuccessful and the casualty's heart stops, or has stopped beating, you must perform External Chest Compression (ECC) in conjunction with M-T-M. What is the rhythm when performing M-T-M in combination with ECC with one First Aider only?

A : 15 compressions followed by 2 full ventilations.

UXGT : How much water would you allow per person as officer in charge of the lifeboat, following an abandon ship operation?

A : Nothing for the first 24 hours, then 1/2 litre per day (more in the tropics)

UXIJ : What is the meaning of this symbol ?

A : Muster station

UXOB : What does the abbreviation SOLAS mean?

A : International Convention for the Safety of Lives at Sea

UXPU : You have water washed your cargo tanks using the fixed machines. What should you do before using portable machines to clean areas screened from the wash of the fixed machine by structural members?

A : Ventilate the tank and perform procedure for tank entry according to company manual, then fit the portable machines.



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

UXQJ : Give the meaning of this symbol:

A : lifebuoy with light and smoke

UXQO : What is important to wear for all officers and crew when working on the ro-ro deck during loading and discharging?

A : Fluorescent vest/ working clothes

UXRU : If a cargo has a litreweight Of 1.5200 kg/l at 15 degrees Celsius and a correction factor of 0.001 per degree, what will the litreweight be at a temperature of 20 degrees Celsius?

A : 1.5150 kg/l

UXRU : If a chemical cargo has a litreweight Of 1.5200 kg/l at 15 degrees Celsius and a correction factor of 0.001 per degree, what will the litreweight be at a temperature of 20 degrees Celsius?

A : 1.5150 kg/l

UXSI : The recognised definition of High Voltage equipment is anything that operates at over which of the following levels?

A : 1000Volts ac or 1500Volts dc.

UXTG : Is it at any time compulsory to hold a maritime inquiry?

A : Yes, and as listed in the Maritime Act.

UXUE : Which mandatory handbooks for medical treatment shall be carried on board?

A : One control book for special medicines, one approved by Norwegian authorities medical book ("International Medical Guide for ships") and three pamphlets regarding first aid.

UYAE : How would a ship drifting onto a rocky shore, be communicated?

A : Flotsam

UYAU : What prevents hatch cover panels from lifting in a seaway?

A : The hatch cleats

UYAU : What prevents hatch cover panels from lifting in a seaway on a General Cargo vessel?

A : The hatch cleats

UYCL : Treatment of burns and scalds depends on the severity of the injury. What is the correct thing to do for minor burns and scalds?

A : Place the injured part under slowly running cold water for at least 10 minutes, but preferably until the pain is gone. If no water is available, use any cold, harmless liquid.



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

UYGR : What is the maximum allowed suction head for fire pumps? (SOLAS II-2/4.3.3.2.5)

A : 4.5 meters

UYHP : When using an electric drier the linen should be removed when it is?

A : Approximately 85% dry.

UYNH : Which Act(s) govern(s) the conditions of hours of work on NIS-ships?

A : Certain sections of the Act 3 June 1977 relating to hours of work on board ship and section 7 of the Act 12 June 1987 relating to NIS

UYOV : What makes a container vessels cargo holds effective in containing under-deck fires?

A : Intact hatch and ventilator seals

UYOV : What makes cargo holds effective in containing under-deck fires?

A : Intact hatch and ventilator seals

UYPA : Where will you normally find the ships documents including Crew Passports and CDC on board a vessel?

A : Ships Office

UYPO : Assign men to search men and women to search women unless a device such as a metal detector is used.

A : TRUE

VABS : Which ships does the ISM code apply to

A : All passenger ships, all cargo ships of 500GRT or above

VAEE : Which statement is true?

A : The purpose of the priming unit on centrifugal pumps is to evacuate the suction line if air is present

VAEJ : Which of the following duties shall be included in the "muster list" as being assigned to members of the crew ?

A : closing of watertight doors, fire doors, valves, scuppers, side scuttles, skylights and portholes

VAFF : An Inmarsat-C terminal is suitable for:

A : store & forward messages



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

VAKD : Unconscious casualties who are breathing and whose hearts are beating should be placed in the Recovery Position. Why is this position so important?

A : The position ensures that an open airway is maintained.

VATG : When the cable length from the temperature sensor to the place where we want to read the temperature exceeds approx. 10 meters we normally have to, in case of a Pt 100, in some way compensate for the cable resistance. Do we also have to do this if we choose to use a T802 temperature sensor?

A : No

VATI : You are witnessing someone about to faint. What are the symptoms ?

A : The person may be very pale, and pulse is slow at first and weak

VATI : You are witnessing someone about to faint. What are the symptoms ?

A : The person may be very pale, and pulse is slow at first and weak.

VAVS : In the case when the temperature of the ambient air is equal to 10°C and the wind is blowing at a speed of 10m/sec the shipwrecked person must consider that the effect of air on his body is equivalent to that of an air whose temperature would be approximately:

A : 0°C

VBCG : Why is it important to recognize the language of the passengers?

A : Enables you to communicate with them during normal operation and in an emergency.

VBHL : On the air compressors crankcase there is a small valve that lets off overpressure. What do we have to do if this valve is letting off pressure and oil moisture ?

A : Overhaul the compressor unit.

VBNC : What does this crane signal indicate?

A : Lower the boom, raise the load.

VBNE : If pollution takes place, what would you do immediately?

A : Report to relevant authorities.

VBOB : An alarm signal consisting of seven short blasts followed by one long blast is sounded by the ships whistle and the alarm bells. What are you to do?

A : Go to your lifeboat station (muster station).

VBOE : During a stay in port, a towing wire is to be put out forward and aft. What is important to take care of regarding this wire?

A : That the wires are just above the water line at all times



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

VBOE : During a stay in port, a towing wire is to be put out, forward and aft. What is it important to take care of regarding this wire?

A : That the wires are just above the water line at all times

VBOV : A unit of alcohol is equal to which of the following measures?

A : A half pint (284 ml) of lager / light beer or a small glass (125 ml) of wine

VBRJ : Temperature sensors may be marked T 802. What does it mean?

A : 802 ohm at 20° C

VBRJ : Temperature sensors may be marked T 802. What does this mean?

A : 802 ohm at 20° C

VBSE : What are the Bosun and 2nd Mate going to do?

A : They are going to weigh the anchor

VBVU : Which of the following preventive actions are required by the International Maritime Dangerous Guide Code?

A : All these actions are required.

VBYA : What is 'Reserve Buoyancy'?

A : The buoyancy provided by all enclosed spaces above the waterline

VCEY : Which cleaning agents for machinery space are important to use due to the oily water separators function?

A : A non-emulsifying agent with self splitting emulsifiers.

VCIB : What is the meaning of this symbol ?

A : Line-throwing appliance

VCJW : What is the meaning of this flag signal?

A : L2330

VCLF : What does regulation 33 of chapter V of SOLAS require?

A : - me master or a snip at sea which is in a position to De aoie to provide assistance on receiving information from any source that persons are in distress at sea, is bound to proceed with all speed to their assistance, if possible informing them or the search and rescue



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

VCNH : What to do if Your ship receive HFO with high density, from the last bunkering, to obtain the best purifying result?

A : According to the nomograms You select a gravity disc with larger hole diameter.

VCOV : Before commencement of any work aloft, you should carry out risk assessment of the worktask. What kind of extra personal protective equipment is required as a minimum to carry out the work?

A : All personnel who are working aloft, where there is a risk of falling more than two metres, should wear a safety harness (or belt with shock absorber) attached to a lifeline.

VCSD : A lifebuoy is constructed to withstand a drop into the water from a height of:

A : 30 m

VCTP : Fast rescue boats shall be stowed and kept in a state of continuous readiness for launching:

A : In less than 5 minutes

VCTS : In which ships shall fire hoses be connected to hydrants in interior locations at all times? (SOLAS II-2/4.7.1)

A : Passenger ships carrying more than 36 passengers

VCTT : How often shall it be conducted an abandon ship drill and fire drill onboard a passenger ship?

A : Weekly

VCWK : For how long and at what speed is a fully loaded lifeboat designed to operate in calm weather?

A : 6 knots for 24 hours

VDAP : After discharge of a bulk cargo by grabs and bulldozers (bob cats), which part of the hold must be checked very carefully for damage?

A : Access ladders

VDCJ : Give the meaning of the following symbol:

A : muster station

VDDD : What is the normal name of the special wire/rope on board the ship used to make a tug fast?

A : The tug was made fast at the centre lead astern

VDEU : Why does the Chief Mate have to reorder the cargo plan?

A : The wheels of hatchcover No. 7 came off their tracks



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

VDFX : What should crew members not assigned to emergency teams, do?

A : they should prepare survival crafts and in general render assistance where need

VDHL : Which item among those below is included in the normal equipment of every lifeboat ?

A : a rustproof dipper with lanyard

VDNH : Which body should be issued with the Document of Compliance

A : The company responsible for the operation of the ship

VDPN : Which wave length applies to a frequency of 20 MHz?

A : 15 mtr

VDQK : Which class of emission is used for HF radio telephony transmissions ?

A : J3E

VDQY : Which of the following statements best applies to the use of ordinary, commercial mobile telephones on board an oil tanker?

A : They can not be used in the hazardous areas on board at any time

VDVM : Is there any conditions that influent on the efforts when organising the fire fighting?

A : Where the fire breaks out, how many fire teams are available, the strength of the fire, the ships mobility, what is burning and communication

VEDU : You are the Sen.Off.Deck on vessel "A" and you have been involved in collision with vessel "B". Your cargo is fuel oil. The oil cargo is leaking out and the weather condition is good. What will you do to avoid the oil to reach and pollute the coast line?

A : By putting the vessel mooring ropes as an oil boom around vessel and oil slick

VEES : A resistor has three red bands. If they all carry information about resistance value as opposed to tolerance, what is the indicated resistance?

A : 2200 ohm

VEES : A resistor has three red bands. What is the resistance?

A : 2200 ohm

VEES : A resistor has three red bands. What is the resistance.

A : 2200 ohm



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

VEGF : What is the purpose of introducing inert gas into cargo tanks?

A : To create a non-explosive atmosphere in the tank.

VEGF : What is the purpose of introducing inert gas into the cargo tanks of an LNG carrier?

A : To ensure a non-explosive atmosphere in the tank during gassing up operations.

VEGG : What is the necessary equipment besides detergent when performing floor scouring on PVC - covered floors?

A : A combined scouring and polishing machine.

VEIR : What section of the Crew Agreement would a young person be required to sign?

A : ALC 1c

VEIW : Which item among those below is included in the normal equipment of every rescue boat ?

A : a first-aid outfit

VEKN : Which of following items shall be included in an abandon ship drill?

A : lowering of at least one lifeboat after any necessary preparation for launching

VEMB : When onboard channel 16 is used for a shore radio-connection, you always work:

A : simplex

VEON : On RoRo passenger ferries, the passengers are not normally allowed to be on the car-deck during sailing. What is the reason for this rule?

A : In case of an emergency situation, the car deck can be difficult to find the way around, and cars can shift position caused by ships movement.

VEOS : Liquefied gas is, by IMO, divided into different groups. What is the criterion for this division?

A : The boiling point, chemical bindings, toxicity and flammability.

VEVE : What type of pump of the below mentioned would be most suited for serving as a high pressure boiler water feed pump?

A : Multistage centrifugal.

VEYS : Your ship is making sternway of about 1.5 knots and your rudder is hard to starboard. Will this have any effect on the ships behaviour

A : Yes, it will give the stern a lift force to starboard



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

VFAI : Sometimes, in order to improve suction to the pumps when discharging "light" or "gassing" cargoes, the tanks are pressurised by admission of inert gas under overpressure from the inert gas fans. In this respect one must remember that tanks are generally dimensioned to withstand a vapour pressure of:

A : 2500 mm wg?

VFCS : How should mild steel slabs be loaded in a bulk carrier?

A : Interlocked across the entire cargo hold with the longitudinal axes athwartships

VFDY : The "sensitivity" button adjusts:

A : RF-Gain

VFFK : What is most important for crew members when preparing for emergencies?

A : That people are well trained

VFJG : What does this flag mean?

A : I have a diver down; keep well clear at slow speed.

VFJH : Special "additives" are sometimes blended with, or added to, chemical cargoes to prevent polymerisation, decomposition or oxydation while they are in the ships tank on a long voyage. What general term is given to these additives?

A : Inhibitors.

VFNW : On a Container vessel, what are twistlocks designed for?

A : To couple containers vertically

VFNW : What are twistlocks designed for?

A : To couple containers vertically

VFTT : A seawater pump requires overhaul but there are no spare wear rings for the casing and impeller. It is decided that new wear rings will be fabricated onboard using the ships lathe. What would be the most suitable material to use to fabricate the rings onboard?

A : Aluminium brass.

VFUM : What is this kind of controller normally called?

A : A cascade controller.

VFWD : What are the characteristics of CO2?

A : All the mentioned alternatives.



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

VFYT : On the figure 4 possible definitions of the term "STERN" are given. Which one is the correct one?

A : Stern is given by C on the figure

VGAF : Which one of the listed requirements regarding inflatable liferafts corresponds to present regulations? Every liferaft shall be so constructed that:

A : be prevented from pressure exceeding twice the working pressure, either by relief valves or by limited gas supply

VGAH : Where would you normally expect to find the air vent cock on a steam boiler?

A : highest point of the steam and water drum

VGBF : With the squelch mode on the VHF:

A : another channel is chosen

VGCO : What is the meaning of this symbol ?

A : Survival craft portable radio

VGCY : What information is required on passengers prior to departure?

A : All persons on board shall be counted and details of persons who have declared a need for special care or assistance in emergency situations shall be recorded and communicated to the Master

VGDO : How can the officer in charge change the value of the Transverse Metacentric Height?

A : By loading or discharging cargo and probably changing the positions of G and M.

VGGB : What percentage of the baggage is required to be checked at Security Level 1?

A : The percentage is not specified.

VGMS : What does this crane signal indicate?

A : Lower the boom.

VGMU : What is the alcohol content in the blood permissible under US legislation before it is defined as intoxication?

A : 0,04 %

VGNO : In a distress situation and immediately after the distress signal has been sounded, what next action should be taken by the officer on duty?

A : Use the intercom to inform crew and passengers of the reason for the alarm.



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

VGON : According to regulations cranes and other lifting appliances onboard should, at regular intervals, be examined by ships personnel and the result recorded in Cargo Gear Book. How often should such examinations take place?

A : - Annually.

VGON : According to regulations cranes and other lifting appliances onboard should, at regular intervals, be examined by ships personnel and the result recorded in Cargo Gear Book. How often should such examinations take place?

A : Annually.

VGON : According to regulations cranes and other lifting appliances onboard should, at regular intervals, be examined by ships personnel and the result recorded in Record of Lifting Appliances. How often should such examinations take place?

A : - Annually.

VGON : According to regulations cranes and other lifting appliances onboard should, at regular intervals, be examined by ships personnel and the result recorded in Record of Lifting Appliances. How often should such examinations take place?

A : Annually.

VGON : According to regulations cranes and other lifting appliances onboard should, at regular intervals, be examined by ships personnel and the result recorded in Register of Ships Lifting Appliances and Cargo Handling Gear. How often should such examinations take place?

A : Annually.

VGON : According to regulations cranes and other lifting appliances onboard should, at regular intervals, be examined by ships personnel and the result recorded in Register of Ships Lifting Appliances and Cargo Handling Gear. How often should such examinations take place?

A : - Annually.

VGSS : What is the meaning of AAIC?

A : Accounting Authority Identification Code

VGSW : A wire rope lashing is connected to an eye plate by means of a shackle. What is the Maximum Securing Load (MSL) for this lashing?

A : The Minimum Securing Load of either the wire rope or shackle or eye plate

VGTP : Why is it important to keep the condense PH- value in correct range?

A : To neutralize the acids occurring in the condensate system.

VGUN : Read the text in the frame before answering the question: What are the most severe challenges to the shipping industry today?

A : The main problems are the aging world fleet and old ships.

VGWV : The minimum number of lifebuoys required for a passenger ship cannot be less than:

A : 8



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

VGYN : What is an endorsement/ qualification document?

A : A document, which together with the national certificate is entitling the holder to serve in a position for which a certificate of competency is required

VHBU : Chemical boiling out is one method that is used for cleaning the waterside of a steam boiler. Select from the given options the likely circumstances under which this procedure would be considered necessary?

A : Contamination of the boiler water by oil.

VHHU : You are underway on a power driven vessel in open water when you see another power driven vessel approximately five miles straight ahead on an opposite course. What action do you take?

A : Make a bold alteration to starboard and pass on his port side

VHHU : You are underway on a power driven vessel in open water, when you see another power driven vessel approximately five miles straight ahead on an opposite course. What action do you take?

A : Make a bold alteration to starboard and pass on his port side

VHKD : Dry chemical powders extinguish fire by...

A : Inhibition and smothering

VHLB : Most boiler design incorporate external "downcomers". For what purpose are those "downcomers" primarily incorporated?

A : Ensure adequate circulation in all conditions of steaming.

VHNO : Which of the given options best completes the following statement? You should never attempt to light a boiler until.....

A : use a proper torch

VHOK : What is very important to monitor when distributing cargo?

A : You should always ensure the ship has sufficient stability at all times. Cargo shall preferably be distributed evenly to avoid heavy list/ trim

VHTA : Why is grain bundled?

A : To prevent bulk grain from shifting

VHVV : Falls used in launching shall be turned end for end at an interval of not more than X months and to be renewed not later than every Y years, where the intervals are:

A : 30 months / 5 years

VHXP : You are involved in discharging and crude oil washing a crude oil carrier. What is the maximum allowed oxygen level in the Inert Gas supply to a tank being crude oil washed (IMO)?

A : 5 %



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

VHXQ : What is the most negative side of using a centrifugal cargo pump?

A : A fixed sprinkler system at the cargo manifold

VHXT : On a Container vessel, which of the following is a Flammable Liquid, under the IMDG Code?

A : Paints, which emit flammable vapours up to and including 60 degrees Celsius closed-cup test

VHXT : What is a flammable liquid under the IMDG code?

A : Any liquid with a flashpoint of 61 degrees Celsius or below

VHXT : Which of the following is a Flammable Liquid, under the IMDG Code?

A : Paints, which emit flammable vapours at 60 degrees Celsius closed-cup test

VHYL : Foams may be classified according to their expansion rate in:

A : low-expansion foam

VIBR : Where shall shoreside fire-fighting personnel find necessary information to control a fire on board a cargo ship in an emergency situation?

A : In the fire control plans or booklet that must be stored in a watertight prominently marked container outside the deck house

VIDL : The Training Manual shall contain instructions and information on the life-saving appliances and the best method of survival. Which of following detailed explanations of crew duties in relation to emergency situations shall be contained therein?

A : Boarding, launching and clearing of survival crafts (lifeboat/liferafts) and rescue boats

VIGB : A vessel is towing with a total length of 1350 meters and expects strong wind from starboard side. The towing wire is connected 20 meters from the towing vessels stern rail. What is to be done?

A : Secure the wire all way aft, to prevent wire moving out of center

VIGS : On the radio telephony 2182 kHz frequency when are the "silence periods"?

A : For 3 minutes starting on the hour and half hour.

VIGU : A ship is turning around a point called the "pivot point". What is the position of this invisible point when the ship is "dead" in the water?

A : About same position as the center of gravity

VIHN : For which ships is the SOLAS convention applicable?

A : For all vessels.



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

VIHV : During crude oil washing, the tank being washed is also to be stripped simultaneously. What is the requirement to the stripping capacity during crude oil washing?

A : The stripping capacity has to be 25% more than supplied liquid.

VIMQ : When you join a new ship, how are you informed about safety rules, alarm instructions and your own duties in case of an emergency ?

A : by muster lists exhibited in conspicuous places

VIPU : What is the name of this unit?

A : A hydrostatic release unit

VIQJ : Why should only one set of ballast tanks be filled at any one time on a Bulk Carrier?

A : To ensure that free surfaces in ballast tanks do not become excessive during the ballasting operation

VIRM : What means of communication shall be provided to each member of the fire patrol?

A : A two-way portable radio

VIKV : The steps of the embarkation ladder used must be proportioned as it follows:

A : length = 480 mm, breadth = 115 mm, depth = 25 mm

VISK : What is the Fitter asked to do?

A : He is to check the heater for the hydraulic oil

VIWM : When would health surveillance be required

A : When a particular work activity may cause ill health, when an identified disease or adverse health condition is related to the work recognised testing methods are available for early detection of an occupational disease

VJBP : Which items are important to get an optimal separation?

A : Correct flow, pressure and temperature (viscosity).

VJDM : Each person the liferaft is permitted to accommodate for is provided with a quantity of water of:

A : 1,5 l

VJEF : What factors do you consider as important before mooring a vessel?

A : Use of proper Personal Protective Equipment, Well maintained mooring equipment, Make sure the area is tidy and clean, Mooring stations should have effective hazard markings/ hazard highlightin



VJGX : The fire integrity of any bulkhead shall be maintained

A : At the openings and penetrations

VJHL : How many sections are contained within the Official Log book?

A : 8

VJJH : Give the meaning of the following symbol:

A : liferaft

VJLP : Which one of the given requirements regarding survival craft muster and embarkation arrangements corresponds to the present SOLAS regulations?

A : Muster and embarkation stations shall be readily accessible from accommodation and work areas

VJLS : Is it necessary to state the accounting code of the vessel in fully automated radio telex-traffic with a coast-station?

A : Yes

VJYC : A particular vessel is equipped with the possibility to insert CO₂ in the scavenging air belt in case of uncontrolled fire. What are the action to be taken in case of fire in the scavenging air belt?

A : Reduce the RPM to reduce the scavenge air temperature. When the temperature is reduced and in case the fire is not extinguished by itself, insert carefully CO₂

VKKC : On a RoRo vessel, what is the Maximum Securing Load of web lashings?

A : 50% of the breaking strength

VKKC : What is the Maximum Securing Load of new web lashings?

A : 70% of the breaking strength

VKKC : What is the Maximum Securing Load of web lashings?

A : 70% of the breaking strength

VKNG : How many hand held distress flares are carried in each lifeboat?

A : 6

VKRK : What is the responsibility of Channel Surveillance unit

A : To observe traffic movement in the English Channel, give advice on traffic move-ments and alert vessels which are making improper use of traffic separ. scheme



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

VKSG : On the figure 4 possible definitions of the term "AIR DRAUGHT" are given. Which one is the correct one?

A : Air draught is given by C on the figure

VKSG : On the figure 4 possible definitions of the term "AIR DRAUGHT"(Height) are given. Which one is the correct one?

A : Air draught is given by C on the figure

VKUF : What letter is represented by this flag and what is its meaning when displayed by a vessel in port?

A : P - All persons should report on board as the vessel is about to proceed to sea.

VKUS : What is the correct definition of "a bollard"?

A : A remedy to which the mooring lines are made fast

VKUS : What is the correct definition of: - a bollard?

A : A remedy to which the mooring lines are made fast

VKXI : When re-inerting a cargo tank before commencing air venting, what is the maximum oxygen content in the supplied inert gas(IMO)?

A : 5% by volume.

VKYB : You are on a power-driven vessel underway in open water. This vessel is sighted wide on the port bow. Its bearing is opening, but its distance is closing rapidly. Which of the following is a correct assessment of the situation and the action to be taken?

A : Risk of collision is deemed not to exist and I will maintain my course and speed. I will continue to monitor the situation.

VLBK : Which one of the following items has to be included in an abandon ship drill?

A : a mock search and rescue of passengers trapped in their staterooms

VLER : Which of the following corresponds to the method of protection "I C" in the accommodation and service areas of a cargo ship?

A : Construction of all internal divisional bulkheading of "B" or "C" class divisions, without the installation of an automatic sprinkler extinguishing system

VLOA : Where do you find instructions for tasks and duties in case of an emergency?

A : In the muster list.

VLOB : What does the term OIL mean, as used in the Oil Pollution Regulations?

A : All of the mentioned



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

VLOS : Why is it important to have an efficient fire patrol system on board passenger ships?

A : To ensure that an outbreak of fire may be promptly detected

VLOY : How do you find out your duties from the alarm instruction?

A : By entering the alarm instruction with your cabin number

VLPT : In the chemical trade the acceptable means of cargo line segregation in case of two non-compatible products is:

A : By double blank flanges with a drain between them?

VLPX : A person wearing an anti-exposure suit shall be able to:

A : climb up and down a vertical ladder of at least 5m in length

VLTY : What is most important when preparing for emergencies?

A : That people are well trained.

VMEJ : On a Container vessel, what is a Fantainer used for?

A : Carrying dry cargoes prone to condensation

VMEJ : What is a Fantainer used for?

A : Carrying dry cargoes prone to condensation

VMGH : What is the correct definition of: -fair lead?

A : Where the mooring lines lead.

VMJP : Give the meaning of the following symbol

A : Sprinkler horn

VMKP : All liquefied gas carriers, including LNG carriers, must comply with the requirements of the IMO Gas Codes. Which certificate confirms compliance with the Gas Code requirements?

A : Certificate of Fitness.

VMKP : Which certificate is issued in accordance with IGC Code?

A : It is the Certificate of Fitness that is issued in accordance with the IGC Code.



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

VMKT : In installations of INTRINSICALLY SAFE equipment it is required that all cabling should be separated from non-intrinsically safe equipment, and to be of a special colour. What colour is that?

A : Blue

VMKT : In installations of INTRINSICALLY SAFE equipment it is required that all cabling should be separated from non-intrinsically safe equipment, and (where colour coding is relied upon) to be of a special colour. What colour is that?

A : Blue

VMKT : In installations of INTRINSICALLY SAFE equipment it is required that all equipment should be separated from non-intrinsically safe equipment, and to be of a special colour. What colour is that?

A : Blue

VMLM : Which element must be removed to extinguish a fire?

A : Either of the mentioned elements

VMRC : What certificates does the harmonised survey and certification cover?

A : All SOLAS, MARPOL and Loadline convention Certificates

VMSD : Personnel in a high voltage switchroom smell ozone. This is likely to indicate which of the following?

A : Arcing at badly connected bus bars

VMSE : When a message is sent by the Inmarsat—C installation to an Internet e-mail address, the land charge is:

A : independent of the destination

VMXE : A refrigerated break-bulk cargo (not palletised) is being loaded into a space that it will not fill. From the options given select the one which gives the best way to finish the stow.

A : The stow should be stepped down progressively over several rows so that it is self securing.

VMYA : What do we mean to gas free a cargo tank?

A : To gas free a cargo tank means that we remove flammable-, neutral- or toxic atmosphere from the cargo tank

VMYX : Name the three most common energy forms.

A : The three most common energy forms are mechanical energy, chemical energy and electrical energy

VNAJ : If we reduce the head to appr. 75 % of normal, what will the power consumption of the pump be?

A : 60 %



VNDQ : How much water per person is provided in a liferaft not equipped with a desalting apparatus?

A : 1.5 litre

VNDU : What would be the most probable cause of a drop in the lubricating oil pressure?

A : A bearing is damaged.

VNEP : What does this crane signal indicate?

A : Stop

VNFF : Why is it necessary to use the vacuum pump after a major overhaul of a refrigeration system?

A : To remove any air and water from the system in order to prevent problems during

VNFF : Why is it necessary to use the vacuum pump after a major overhaul of a refrigeration system?

A : To evacuate air and water out of the system in order to prevent problem during operation.

VNFF : Why is it necessary to use the vacuum pump after major overhaul of the reefer system?

A : To evacuate air and water out of the system in order to prevent problem during operation.

VNFF : Why is it necessary to use the vacuum pump after major overhaul of the reefer system?

A : To remove any air and water from the system in order to prevent problems during

VNFH : What is the meaning of this symbol ?

A : Line-throwing appliance

VNFK : What could be the reason to knocking in the engine?

A : The piston clearance is too large. Worn piston or cylinder liners.

VNGD : What is the main reason for using big bulk carriers?

A : To transport cargoes in large volumes

VNIW : On area A3 the function " Transmission and reception of on scene communications" is mainly based on:

A : the use of MF and/or VHF R/T



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

VNJR : Why do we have to make sure that the plate pack is compressed to the right measurement A, after insertion of plates?

A : To prevent serious damages on the plates.

VNJT : What is the correct way in approaching the SPM, taking the prevailing wind, current and waves into consideration?

A : As in example 2

VNLM : Which of these statements is correct?

A : Cargo dissolved in bilge water is not considered cargo residue

VNMW : Give the meaning of the following symbol:

A : immersion suit

VNNX : You wish to send a DSC-message because of a m.o.b. situation and assistance by other ships is required. You have to choose the category:

A : distress

VNOO : What is the meaning of this symbol ?

A : Immersion suit

VNQE : The best way to ensure you get the equipment you need is to:

A : Determine your needs and do some research.

VNRB : What is the M.T.M. ordered to
d o ?

A : He is to dismantle and clean the lub oil separator

VNRE : Passenger ship engaged in international voyages must conduct a muster for all passengers. What is the time limit for this exercise?

A : 24 heures

VNSG : Which of the answers best summarises the information which should be provided for the bridge Officers of the Watch within an effective Voyage plan.

A : All of the suggested answers

VNWE : What kind of safety equipment must be worn during mooring operations?

A : All of the mentioned equipment.



VOFH : Which of the following features is required for an anti-exposure suit ?

A : is equipped with a pocket for a portable VHF

VOJN : What should be done prior to loading cotton?

A : The cargo hold fire-fighting system should be thoroughly examined

VOJN : What should be done prior to loading cotton on a General Cargo vessel?

A : The cargo hold fire-fighting system should be thoroughly examined

VOLV : What are safety cones used for?

A : Guiding vehicles while driving on board

VOLV : What are safety cones used for on a RoRo vessel,?

A : All of the alternatives

VOBW : The minimum number of lifebuoys required on passenger ships depends on:

A : the length of the ship

VORQ : Sanitary-, ballast-, bilge- or general service pumps may be accepted as fire pumps provided:

A : They are not normally used for pumping oil

VOXH : What English name is given to a sauce or relish made of chopped fruit and vegetables with spices and herbs, commonly used as a complement to cold meats?

A : Chutney.

VPGX : Some liquefied gas carriers are fitted with nitrogen generating equipment, often of the membrane module design. What would be the expected purity of the nitrogen produced by such equipment?

A : 95 to 97% pure nitrogen.

VPHG : Why should heavy-duty footwear, with non-slip soles and re-inforced toecaps, that fully cover the foot, be worn when working in the galley and storerooms?

A : To avoid the possibility of injury if a sharp or heavy object is dropped, or a hot liquid is spilled, or the floor becomes slippery.

VPHR : Which one of the given requirements regarding manning and supervision of survival craft corresponds to the SOLAS regulation?

A : A deck officer or certificated person shall be placed in charge of each survival craft to be used



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

VPHS : During restricted visibility you are posted, as lookout, on the bridge and you hear 1 prolonged blast at intervals of no more than 2 minutes on your port bow. What will you report to the OOW (officer on watch)?

A : Power-driven vessel making way on port bow

VPLB : Which is the preferred state to have the main turbine in while shutdown for a short stay in port?

A : Turning with the turning gear and gland steam on.

VPLC : What is one reason for repeating a command to passengers in an emergency?

A : More people will have a chance of hearing the command.

VPLV : Which British ships must carry the Code of Safe Working Practices for Merchant Seamen

A : Every UK ship except fishing vessels and pleasure vessels

VPMV : Your vessel have been in collision and you are not sure if your vessel is sinking or not. How will you handle this situation?

A : Search for missing persons. Continue to monitor situation and prepare for abandonment in case it become necessary.

VPMV : Your vessel have been in collision and you are not sure if your vessel is sinking or not. How will you handle this situation?

A : - Complete soundings of all compartments to determine the number compartments flooded. Check the vessels stability limitations withir statutory loadline requirements to determine if still adequate.

VPRU : Which action do you perform when you log in to a satellite ocean region?

A : You inform the NCS that the SES is available for communications.

VPSJ : You receive a distress alert on HF Radio. What should you do?

A : Wait three minutes and if no acknowledgement is heard from a coast station you should relay the alert.

VPSL : In chemical tankers, to avoid having a deteriorating effect on cargoes and also to avoid cargoes attacking them, steam heating coil are generally made of:

A : Stainless steel?

VPSR : The muster list shall specify details of general alarm signal and also actions to be taken by crew and passengers when the alarm is sounded. Which of the following actions do not necessarily have to be included in the muster list? The muster list shall:

A : be prepared and approved by the Administration before the ship proceeds to sea

VPTN : What will you serve seafarers who have been exposed to heat?

A : Cold drinks and salt.



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

VPUB : Responsible for the on-scene coordination during search and rescue operations is:

A : On Scene Commander

VPUH : Give the meaning of the following symbol

A : Start water-spray

VPVW : Which one of the listed requirements regarding rigid liferafts do not correspond to present regulations? The liferaft shall have:

A : all entrances fitted with rigid boarding ramps for boarding the liferaft at sea

VPWQ : Who are responsible for safe working conditions onboard?

A : Master, Chief Engineer & Chief Officer.

VPWS : What is a hydrostatic release unit?

A : unit which automatically releases the liferaft/lifeboat at a depth of approx 4 metre

VPXS : From which animal and which cut of meat would you use to make a real snitzel?

A : A cut of veal topside.

VQBC : What would be the most probable cause if the exhaust gas from a diesel engine looked a bit blue in colour?

A : Engine burning too much lubricating oil.

VQGV : A pan on the galley stove containing oil catches fire, which of the following should NOT be used on this type of fire?

A : Use water extinguisher to put out the fire.

VQHP : Having boarded the liferaft, how do you release the painter?

A : Cut it with the safety knife stowed on the exterior of the canopy close to the painter attachment point

VQKC : The MMSI of a ship can be found in :

A : The ITU List of Ship Stations

VQLA : A hand flare must have a burning period of at least

A : 1min



VQLA : A hand flare must have a burning period of at least

A : 1 Min

VQNJ : If oil is found in the boiler water, what action would You take other than isolating the leak?

A : Dose with coagulent and blow down the boiler.

VQQB : The battery of an
E P I R B :

A : must be replaced before the expiry date is exceeded

VQRD : What English name is given to a kind of heavy-duty, wide-bladed knife, used for dividing joints of meat or poultry and which is much favoured by cooks of far-eastern nationalities for a wider range of cutting tasks?

A : Cleaver.

VQRP : A ship is equipped with a right-handed fixed pitch propeller, which when going from Full Ahead to Full Astern will make the ship sheer to starboard. Can anything be done to reduce this change in heading?

A : Put the rudder hard to port to reduce the water flow to the right side of the propeller

VQSV : Which plan shows the position of the vertical and longitudinal centres of gravity for each cargo compartment?

A : Capacity plan

VQTJ : Which of the following is a SART transponder frequency :

A : 9 GHz

VQUF : Why should ro-ro passenger ships be subdivided into main vertical zones?

A : To comply with specific provisions for fire integrity defined in SOLAS and to ensure safety of passengers and crew in case of a fire

VQVT : Which word will precede a distress message ?

A : MAYDAY

VQWO : How many sections are contained within the Official Log book?

A : 8

VRFB : The Muster List shall show the duties assigned to members of the crew. Which of the following duties shall be included according to present regulations?

A : Seeing that the passengers are suitable clad.



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

VRFW : What should be observed concerning a ships water tight integrity?

A : That all water tight ramps and doors are locked and secured at sea

VRFY : What to do if Your ship receive HFO with high density , from the last bunkering, to obtain the best purifying result?

A : According to the nomograms You select a gravity disc with larger hole diameter.

VRGS : A 6-men inflatable liferaft shall be carried as far forward as is reasonable and practicable. Where is the best stowing position?

A : Aft of the forecastle secured with the use of a hydrostatic release device

VRGW : When should gangway nets be rigged?

A : Whenever the gangway is rigged.

VRJE : Which of the following items shall be included in an "abandon ship"-drill?

A : Checking that passengers and crew are suitably dressed and lifejackets correctly donned

VRJS : What types of fire extinguishers shall be used in the engine room?

A : Fire extinguishers equipped for powder or CO2 only.

VRKW : We have a problem with vibration in the turbocharger. What might be the cause?

A : The turbine rotor is not balanced

VRKX : If a nylon mooring rope gets wet by immersion in water it undergoes:

A : A decrease in strength of 20 %

VRD : Which class of emission is used for HF radio telephony transmissions ?

A : J3E

VSES : A cofferdam, a pumproom or an empty tank, located between cargo tanks containing cargoes or cargo residues which might react with each other in a hazardous manner, are all acceptable methods of segregation in chemical tanker stowage according to the IBC Code. Which of the following is also acceptable for this purpose?

A : An intervening cargo tank containing a mutually compatible cargo or cargo residues.

VSES : Three of the following are considered as acceptable arrangements under the IBC Code for the safe segregation of cargoes or cargo residues which may react in a hazardous manner with other cargoes or residues. Select the arrangement which does not meet the segregation requirements.

A : A common bulkhead of at least 10 mm thickness.



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

VSGQ : What could cause engine oil to get a "Milky" colour?

A : Water contamination.

VSGR : Indicate the correct name for the part marked on the sketch:

A : Exhaust valve

VSJW : After you have washed the arrival ballast tanks, what is extremely important to do properly before arrival ballast is pumped into the arrival ballast tanks?

A : To wash all lines and pumps properly.

VSMF : The presence of smoke represents one of the greatest dangers in the fire fighting. Why?

A : It reduces the visibility, provokes panic, is irritating and may be toxic

VSMN : When a coastguard-station wants to send a gale-warning by DSC it will happen in the category:

A : safety

VSQN : Inmarsat is short
f o r :

A : International Maritime Satellite Organisation

VSUQ : On a RoRo vessel, what should be done if the surface of the loading ramp is oily?

A : Immediately clean the oil-affected area(s)

VSUQ : What should be done if the surface of the loading ramp is oily?

A : Immediately clean the oil-affected area(s)

VSMV : Refrigeration plants using ammonia as the primary coolant have been fitted to some reefer vessels. When designing such a ship which aspect, from the options given, would be the most important consideration?

A : Crew safety.

VSWN : Which of the following channels and modes should be used when initiating a distress alert transmission?

A : Channel 70 DSC.

VSWW : Inspection of the LP turbine rotor reveals some erosion damage to the blading on the final stage. Which of the given options is most likely to be the cause of this condition?

A : Steam inlet to the turbine superheat temperature low.



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

VTAM : When arriving a port the manifold connections should always be ?

A : All fully bolted except those actually in use.

VTAU : What kind of electrolyte is used for Nickel-iron batteries?

A : Solution of potassium hydroxide (KOH) and water

VTAW : Your vessel is moving in Panama canal waters. When must the chief engineer remain on duty in the engine room?

A : When approaching or passing through locks and Gaillard cut.

VTBP : Can the OOW be the sole lookout?

A : Only during day time when visibility, traffic etc make it safe

VTCO : Quality of the feed water in a steam plant changes during operation. Caused by this, the water is regularly tested. Which of the below statements describes the chemical mechanisms normally occurring?

A : Generation of carbonic acid causes the water quality to drift towards sour and lower the pH - number.

VTFX : How is the bilge pump protected from cargo debris being sucked in from the bilges?

A : Strum box

VTFX : If a vessel's Longitudinal Centre of Buoyancy (LCB) is 61.178m in saltwater, what would be her LCB in water of density 1.015 T/m³?

A : 61.178m

VTIY : Give the meaning of the following symbol:

A : immersion suit

VTLO : During cargo operations, involving perishable cargoes, deck officers should be aware that the cargo is subject to the effects of the weather and ambient conditions. From the options given, select the one which is likely to cause the most rapid temperature change in a refrigerated commodity.

A : Wind.

VTLR : The engine room is equipped with regular fire hoses and nozzles. What is important to observe when using water as an extinguishing agent in the engine room?

A : All the mentioned alternatives

VTML : Which of the following detailed explanations should be mentioned in the Training Manual ?

A : The use of all survival equipment



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

VTNM : During loading of palletised, chilled, perishable goods it starts to rain heavily in the port area. Some of the cargo pallets have been placed on the quay ready for loading. Select, from the options given, the best course of action to be taken to minimise any damage to the cargo.

A : Return the cargo to the cooling sheds until the rain ceases.

VTOD : When disconnecting the cargo hose after discharging, some oil is drained into the drip-tray under the manifold. What is the correct way to dispose of this oil, which is mixed with some water?

A : Transfer it to the sloptank, and later discharge it to a reception facility

VTOD : When disconnecting the cargo hose after discharging, some oil is drained into the drip-tray under the manifold which already contains a small amount of dirty water. What is the correct way to dispose of this oil?

A : Transfer it to the sloptank, and later discharge it to a reception facility

VUCY : The frequency 156,8 MHz is used for :

A : VHF channel 16

VUDE : What name is given to the fine layer of peel on citrus fruits, often scraped off and added to other dishes to add flavour?

A : Zest.

VUET : Which of the following precautions should be taken when work is to be carried out on the radar scanner unit on the mast?

A : fixed sign on the mast plus signs on each radar when work is in progress in mast

VUFP : According to SOLAS fire drills to be carried out at intervals of no more than?

A : One month

VUUN : Which component does this graphical symbol illustrate?

A : Pressure-reducing regulator.

VUUN : Which component does this graphical symbol illustrate?

A : Pressure-reducing regulator

VUUP : This is an electronic temperature controller. You have been asked to adjust the controllers integrating action. Which button on the front of the controller shall be utilized for this adjustment?

A : Pos. 8

VUWB : A seawater pipe is holed due to corrosion causing frequent bilge alarms. Which of the given temporary repair methods would be the preferred option to remedy the problem until the pipe can be replaced?

A : Cover all of the affected area with fibre glass tape and resin/fibre glass mixture.



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

VUXG : Where will you find instructions on how reduce or control an oil spill during bunker operations?

A : In the Shipboard Oil Pollution Emergency Plan (SOPEP)

VUXG : Where will you find instructions on how reduce or control an oil spill during bunker operations on a General Cargo vessel?

A : In the Shipboard Oil Pollution Emergency Plan (SOPEP)

VVBI : Which Security Levels requires the highest security alert?

A : Security Level 3

VVCC : Which one of the following requirements regarding lifebuoys corresponds to present SOLAS regulations ?

A : not less than half the total number of lifebuoys shall be provided with self-ignition lights.

VVDU : What is the special requirement listed in IBC/BCH when loading White Spirit ?

A : the tanks should be fitted with audible and visible high and high-high level alarms

VVDU : What is the special requirement listed in IBC/BCH when loading White Spirit?

A : the tanks should be fitted with audible and visible high and high-high level alarms

VVFF : With regard to fire hose boxes and/or fire hydrants, what must be ensured upon completion of cargo loading operations?

A : Fire hose boxes and fire hydrants must be accessible at all times

VVFF : With regard to fire hose boxes and/or fire hydrants, what must be ensured upon completion of cargo loading operations on a General Cargo vessel?

A : Fire hose boxes and fire hydrants must be accessible at all times

VVKQ : When reasonable and practicable, how often shall rescue boats be launched with their assigned crew aboard and manouvered in the water?

A : Every month

VVMD : Indicate the correct name for the part marked on the sketch:

A : Exhaust valve

VVMY : Vibration analysis is often used as a conditioning monitoring tool onboard ship as part of the approved planned maintenance system. Many vibration measuring instruments are fitted with a harmonic filter/analyser. How would these filters normally be used during vibration measurement on a centrifugal pump?

A : To isolate a single frequency of vibration associated with one of the pumps components.



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

VVOQ : How does low expansion foam act as an extinguishing agent when dealing with oil fires?

A : By smothering and also providing some cooling

VVPJ : Your vessel is moving in Panama Canal waters. When must the master or his qualified representative be on the bridge?

A : At all times

VVPP : You are underway on a power driven vessel in open water when you observe a crossing power driven vessel approximately 8 miles away at 22 degrees on your port bow. Bearing steady, what action do you take?

A : Maintain course and speed with caution as he is the give way vessel

VVQI : What is the purpose with a expansion coupling?

A : Make the pipes capable to move back and forth inside the coupling.

VVRA : What can a quick change of liquid flow in a pipe line lead to?

A : Pressure surge and liquid pressure.

VVCT : What is the purpose of Material Safety Data Sheets?

A : To provide all personnel including emergency personnel with procedures for handling or working with that substance in a safe manner

VWEM : What means of communication shall be provided to each member of the fire patrol?

A : A two-way portable radio

VWGG : If you observe 2 vehicles having an accident on car deck during loading, what should you do?

A : Report immediately to the loading officer

VWJK : Welding and use of open flames on board tankers in operation are subject to regulation laid down by the Norwegian Maritime Directorate (Norwegian Ship Control Legislation - NSCL). Which of the listed requirements regarding washing and gas freeing before hot work in cargo tanks corresponds to these regulations? (NSCL 22/1294/5).

A : The atmosphere in the tank where hot work is to be carried out, and adjacent tanks shall be checked immediately prior to commencement of hot work.

VWPG : When will a hatch pontoon's side cleat need replacement?

A : When the rubber washer is compressed and hardened

VWQC : Which ships require a Certificate of Fitness

A : Gas carriers and chemical carriers



VWWX : By high power of a VHF is meant a maximum of:

A : 25 watt

VXCB : What is the main advantage of a Positive Pressure Breathing apparatus?

A : If the face mask has a leak toxic fumes/smoke would still not enter the mask.

VXDP : Which of the listed requirements for cargo ships regarding personal life-saving appliances does not correspond to present regulations?

A : Ships fitted with free-fall life-boats may carry thermal protective aids instead of immersion suits

VXEI : How can the Master ensure that all cargo loading doors, bow visors, weathertight ramps etc. are locked and secured before the ship proceeds on any voyage?

A : By having an effective system of supervision and reporting of the closing and opening of doors. Time of closing and opening of doors shall be entered in the log-book.

VXFE : What is the Chief Mate worried about?

A : He is worried that oil will run through the outlets and into the sea

VXGG : Which one of the listed requirements regarding containers for inflatable liferafts do not correspond to present regulations? The liferaft shall be packed in containers that are:

A : completely watertight

VXJJ : Which controller must be tuned first in a cascade control system

A : The secondary controller

VXJJ : Which controller must be tuned first in a cascade control system?

A : The secondary controller

VXPE : Has ILO convention 73 been implemented by Norway?

A : Yes, in regulations on medical examination of employees on ships.

VXQC : LNG is often considered as an ideal gas when looking at the physical properties and characteristics. With reference to the physical properties of gas mixtures which of the given options is the SIGTTO definition of the term mole?

A : The mass that is numerically equal to the molecular mass.

VXQC : What is the definition of "Mole"?

A : The mass that is numerically equal to the molecular mass.



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

VXQC : With reference to the physical properties of gas mixtures which of the given options is the definition of the term mole?

A : The mass that is numerically equal to the molecular mass.

VXQD : What is the procedure for testing a fire detection system?

A : All the mentioned alternatives

VXVV : What basic information do we get from the pump system curve?

A : We get information about the pump's lifting height and liquid flow.

VXXW : What are freeboard sheets?

A : A dedicated set of pages in the Official Log Book for entering details of draughts, freeboards and allowances when departing from any port or place

VYBS : The ship is involved in a collision, what is the immediate action by the Officer of the Watch after the incident has taken place?

A : Sound the General Alarm - carry out emergency actions.

VYCU : What measures regarding ship stability should be taken in order to make passenger ships able to withstand critical damage?

A : Maintain sufficient intact stability

VYEN : Which item among those below is included in the normal equipment of every lifeboat ?

A : four rocket parachute flares

VYFW : Hindus are not permitted by their religious beliefs to eat one particular type of meat. Which one?

A : Beef

VYGV : How often are abandon ship drill and fire drill required to be held on passenger ships, according to SOLAS?

A : Weekly

VYJD : If a shipping company wants to attract clients, it must be able to provide?

A : An efficient and reliable service

VYJD : If a shipping company wants to be attractive to clients, it must be able to provide?

A : An efficient and reliable service



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

VYLVW : The prescribed test of EPIRB, SART and portable VHF radio set must be entered in:

A : ship's radio log

VYPD : On a RoRo vessel, what must you ensure where the cap of a sounding pipe is flush with a ro-ro deck?

A : Prohibit all cargo stowage around this area

VYPD : What must you ensure where the cap of a sounding pipe is flush with a ro-ro deck?

A : Prohibit all cargo stowage around this area

VYUX : It is late evening and you are working on the cargo deck during the loading operation. When moving equipment with the manifold crane, you accidentally damage one of the deck lights, breaking the outer casing and smashing the bulb inside. Which of the following will you do?

A : Report the accident to the Responsible Officer immediately. Switch off the light. Place an isolation notice over the switch to prevent anyone else operating it by mistake. Do not switch the

VYUX : It is late evening and you are working on the cargo deck during the loading operation. You are loading a number of grades of chemicals, including some with a flammability hazard. When moving equipment with the manifold crane, you accidentally damage one of the deck lights, breaking the outer casing and smashing the bulb inside. Which of the following will you do?

A : Report the accident to the Responsible Officer immediately. Switch off the light. Place an isolation notice over the switch to prevent anyone else operating it by mistake. Do not switch the

VYUX : The following cargoes are all "carcinogens": Acrylonitrile, Aniline, Benzene, Chloroform, Epichlorohydrin and Toluene. What is a "carcinogen"?

A : A substance capable of inducing cancer.

VYUX : There has been an accident at the manifold and one of the crew has swallowed a quantity of unidentified liquid chemical. What is the correct medical term for this?

A : Ingestion.

VYWG : How will you find the Tipping Moment of a cargo item?

A : Transverse accelerations/10 x weight of cargo item x height of its centre of gravity above its base

VYXN : A method NOT usually allowed in cleaning up oil spills in the US waters is:

A : Dispersant

VYXO : What is advisable for a person entering a padlocked refrigerated room?

A : He should take the padlock inside the room.

VYYS : What is the benefit of prismatic Type "B" tanks?

A : The benefit of maximising ship hull volumetric efficiency.



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

WACC : For what purpose is inert gas utilised on a gas tanker?

A : Inert gas is utilised on board gas carriers to neutralise atmosphere in cargo tanks, pipes and hold/ interbarrier spaces

WADB : The charge to the cost for a message sent by the Inmarsat-C installation must be calculated. The size of the message is 2,56kbits. The charges message sent is 0,17 SDR per unit. The total charge for the message is:

A : 11 times 0,17 SDR

WADV : Reports shall be made if

A : All answers

WAHJ : While assisting the watchkeeper with routine cleaning of the fuel oil separator the watch rating is requested to clean the plate stack. Which of the options given is the preferred method for such a task?

A : Soak the plates in a suitable solvent until all of the dirt has loosened off and wipe clean with rags.

WAIW : Very roughly, the gas mixture from Crude Oil can be represented by the hydrocarbon gas Propane for analysis and comparison purposes. What is the approximate upper flammable limit(UFL) of crude oil vapours by volume in air?

A : 10 to 11%

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A : 10 to 11%

WAIW : Very roughly, the gas mixture from Crude Oil can be represented by the pure hydrocarbon gas Propane for analysis and comparison purposes. What then is the approximate Upper Flammable Limit of Crude Oil vapours as a percentage by volume in air?

A : 10 to 11%

WAIW : Very roughly, the gas mixture from Crude Oil can be represented by the pure hydrocarbon gas Propane for analysis and comparison purposes. What then is the approximate Upper Flammable Limit of Crude Oil when measured as a percentage volume in air?

A : 10 to 11%

WAIY : During the ship to ship cargo transfer operation if any considerable amount of oil is spilt and trapped between both ships, where risk of ignition due to incensive sparks caused by metal to metal contact, such as fender support steel nets/chains and shipside do exist, you should:

A : Cover the spillage with a layer of foam.

WAPG : Which of the following ear protection devices is most effective?

A : Ear muffs

WARV : Which of the following instructions will generally be given by a port authority to allow welding or hot work in a cargo tank of a tanker ?

A : Before the tank is entered, lifeline, rescue harness and compressed air apparatus shall be ready at the relevant hatch



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

WATF : You have just completed discharge of a cargo of Iso-Butanol and are preparing for tank cleaning. The pumpman is going round the deck checking the cargo pump cofferdams for any leakage of hydraulic oil or cargo. What term is applied to this procedure?

A : Purging.

WATF : You have just completed discharge of a cargo of Iso-Butanol and are preparing for tank cleaning. The pumpman is going round the deck checking the cargo pump cofferdams for any leakage of hydraulic oil or cargo. What term is applied to this procedure?

A : Purging.

WAUD : What is the definition of sludge control?

A : The cargo tanks are to be washed that often so residues do not accumulate in large quantities.

WAUH : What will you bring in a lifeboat if the ship is abandoned?

A : Warm clothes, blankets and lifevests.

WAVF : You are on a tug and are towing an unmanned barge. You are restricted in your ability to manoeuvre. The total length of the tow is 219 metres. What daylight signals are required by the International Regulations for Preventing Collisions at Sea?

A : Diamond shape

WAVJ : The circuit consists of two capacitors, $C(1) = 6 \mu\text{F}$ and $C(2) = 12 \mu\text{F}$, in parallel. Calculate the equivalent $C(S)$ of the two capacitors.

A : $C(S) = 18 \mu\text{F}$

WAYO : A telex connection via Inmarsat-A can be disconnected on board by entering:

A :

WBBD : Which item among those below is included in the normal equipment of every lifeboat ?

A : two buoyant smoke signals

WBBW : Earlier reefer vessels designed and built for liner trade usually had two or three tween decks approximately 2 to 2.5 metres in height and deep lower holds approximately 4 to 5 metres deep. Modern designs usually incorporate more decks each approximately 2.3 metres in height. What is the main reason for this fundamental design change?

A : There is an almost universal use of standard height pallets.

WBCA : How should the hook be released from a davit lowered liferaft?

A : Just prior to reaching the water, the lanyard should be pulled. This sets the hook which will automatically release once the raft is waterborne

WBEG : What is the maximum quantity of cargo permitted to be carried in a single tank on a type 1 chemical tanker?

A : 1250 cubic metres.



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

WBEG : What is the maximum quantity of cargo permitted to be carried in a single tank on a type 1 chemical tanker as per the IBC Code?

A : 1250 cubic metres.

WBFJ : What is the MARPOL definition of a "solidifying substance"?

A : A noxious liquid with melting points less than 15°C, is at a temperature, at the time of unloading, of less than 5°C above its melting point, or in the case of substances with melting points equal to or greater than 15°C, is at a temperature, at the time of unloading, of less than 10°C above its melting point.

WBLW : Give the meaning of the following symbol

A : Survival craft portable radio

WBOG : What are the immediate duties of the bridge Officer of the Watch when the ship suddenly runs into a fog bank?

A : Commence sounding the fog signal, engines on standby, call for lookout, call Master

WBST : The license is a:

A : permission for availability, installation and use of radio transmitters on board

WBXU : On board, in case of an m.o.b. a DSC-call is to be made. In the category-menu is chosen:

A : distress

WCFC : Which of the listed sensors is NOT suitable for detecting temperatures?

A : Strain gauge

WCFC : Which of the listed sensors is suitable for physical displacement?

A : Strain gauge

WCFW : It is possible to operate two similar generators in parallel at equal power (kW) but at different power factors. The generator with lower power factor will cause it to run:

A : Hotter due to increased current

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A : Hotter due to increased current

WCIK : Why did the new Cadet want to go to the messroom?

A : He needed to get acquainted with the officers.



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

WCIK : Why did the new Cadet want to go to the messroom?

A : The new Cadet wanted to go to the messroom to become acquainted with the officers

WCJI : On a Container vessel, where is a load-equalising device used?

A : With parallel lashing rods

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A : With parallel lashing rods

WCKY : Passenger ships have a normal requirement of 1 lifejacket per person + 10% for children. In addition to this, how many lifejackets have to be provided on deck or at the muster stations?

A : 5% extra

WCRR : What advantages does the radar have over the eye?

A : Simplifies the overview

WCXL : What is the name given to the mixture in which meat or fish can be laid for a few hours to add flavour right through the dish?

A : Marinade.

WDBP : Select the option which correctly completes the following statement. "A conventional reefer vessel operating with a controlled atmosphere plant must have cargo spaces which"...

A : ... have a gas tight seal.

WDBR : Apart from red, what other colour is frequently used for a dry powder extinguisher?

A : Blue

WDCU : What is the meaning of this symbol ?

A : Immersion suit

WDCV : The aerial system of an Inmarsat-C terminal consist of:

A : an omni-directional aerial

WDED : One of the following is NOT an alarm on an inert gas plant, which one?

A : Low oxygen alarm



WDEJ : Which of the following is false when a casualty is bleeding?

A : Cover the wound with a cloth

WDEY : What is the minimum number of "International shore connections" that should be provided on vessels of 500 GRT and above?

A : 1

WDFD : What is the meaning of this symbol ?

A : Lifebuoy with light and smoke

WDLY : Which of the following fire-fighting equipment is the most efficient and has the least side effects in case of a large fire in an engine room?

A : Central gas extinguishing system and/or waterfog

WDRO : On a traditional crude oil carrier, it is possible to arrange the valves in the bottom of a pumproom so that cargo flows from one bottom line to another. When more than one grade of cargo is carried, what is the operational safeguard requirement regarding these valves?

A : Two valves segregation.

WDRO : On a traditional crude oil carrier, it is possible to arrange the valves in the bottom of a pumproom so that cargo flows from one bottom line to another. When more than one grade of cargo is carried, what is the requirement regarding these valves?

A : Two valves segregation.

WDRQ : Where do you find detailed information and specific technical requirements for fire safety systems?

A : Fire Safety Systems Code (FSS Code)

WEFB : What are the duties of the "Standby Watch keeper" when he is not on the bridge?

A : Remain in the expected location, available for immediate call from the bridge

WEGK : The transmitting receiving method, when both stations can transmit and receive at the same time is called:

A : duplex

WEGM : Acoustic feedback can arise:

A : because the volume adjustment of the speaker is too high

WELN : Which main unit determines the increasing/decreasing of the fuel quantity, i.e. controls "the effective delivery stroke" (Bosch type pump)?

A : The governor



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

WEOA : The electric motor on one of your centrifugal pumps has for a period of time gradually been running at lower and lower Amp-load. The pump is still supplying water, but the pressure is reduced. Which of the below alternatives is probably the reason?

A : Inner diameter of impeller is bigger due to cavitations, or outer diameter reduced by erosion.

WERP : What kind of cargo pumps are most common on LNG carriers?

A : Submerges motor pumps.

WERP : What kind of cargo pumps is most common on LNG carriers?

A : Submerges motor pumps.

WERP : Which type of cargo pumps are most commonly fitted for cargo handling on LNG carriers?

A : Submerges motor pumps.

WESI : Which one of the following requirements regarding lifebuoys corresponds to present SOLAS regulations?

A : Be constructed of inherently buoyant material.

WESJ : In the international code of signals what does this flag mean?

A : I am manoeuvring with difficulty - Keep clear of me

WESL : What action should be taken by a rating on watch if steam is heard to be escaping from the area of the bottom water header handhole doors? The boiler is a high pressure boiler generating superheated steam.

A : Immediately inform the Officer of the Watch.

WEXD : What is the main reason that passenger baggage creates problems for crowd control?

A : Passenger baggage clutters escape routes, and embarkation stations, and slows down an evacuation.

WEXL : What phenomenon is used for liquid cleaning by centrifugal separators

A : Centrifugal force

WFAM : With regard to radar, what would be a correct form of response to the question: What range scale are you using?

A : The correct form of response would be: "I am using the 12 mile range scale"

WFAW : Which of the following fittings shall be provided to all lifeboats:

A : watertight lockers or compartments



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

WFBM : What factors do you consider as important before mooring a vessel?

A : Use of proper Personal Protective Equipment, Well maintained mooring equipment, Make sure the area is tidy and clean, Mooring stations should have effective hazard markings/ hazard highlightin

WFIF : You should use short and simple words, rather than long, complex words, when giving emergency instructions. What is the main reason for this?

A : People are more likely to understand you.

WFSH : What is the meaning of this symbol ?

A : EPIRB

WFTX : Where would you store a six-month supply of margarine?

A : In the meat locker

WFTY : Overshoot

A : Do a 20/20 degrees zig-zag manoeuvre

WFUR : Are all independent tanks self-supported?

A : All independent tanks are self-supported

WFYY : Which of the following may cause a fire in the accommodation spaces?

A : All the mentioned alternatives

WGAA : At what latest time shall doors, side scuttles, gangway doors, cargo- and coaling ports and other openings which are to be kept closed watertight at sea be closed at the start of the voyage?

A : Before leaving the port

WGDD : In which cases shall side scuttles in passenger ships be so constructed that they cannot be opened without the consent of the master of the ship?

A : Where the sills of the side scuttles are below the margin line

WGEV : By what means can we monitor and control the integrity of the hull?

A : Automatic detection systems, television surveillance and patrolling of ro-ro cargo spaces

WGJB : Duct keels or pipe tunnels are a common feature on OBO and O/O carriers. Because they abut cargo compartments and carry cargo & ballast piping, danger of leakage of gas or liquid into them is present. If you have just discharged a cargo of crude oil and were to enter a pipe tunnel for inspection/work you would:

A : Check for presence of hydrocarbon gas using a CGI and oxygen using an oxygen analyzer and if you obtained readings of 0% LEL and 21% oxygen respectively, you would enter?



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

WGKM : According to the IAMSAR Manual, what is the expected survival time for a person in water of 4-10 degrees Celsius, without special protective clothing?

A : - Less than 3 hours.

WGLO : Give the meaning of the following symbol

A : Secure hatches

WGNA : After the start of a man overboard manoeuvre, whom shall be informed?

A : Engine Room

WGND : On a Container vessel, where should containers containing infectious substances be stowed?

A : In a position separated by a complete compartment or hold from living quarters

WGND : Where should containers containing infectious substances be stowed?

A : In a position separated by a complete compartment or hold from living quarters

WGNE : The sign on the image indicates:

A : Location of lifebuoy with self-igniting light and self-activated smoke signal

WGNH : The IMO Gas Carrier code defines liquefied gases as gases with absolute vapour pressure higher than 2.8 bar at which temperature?

A : 37.8 degree C.

WGNH : The IMO Gas Carrier code defines liquefied gases, of which LNG is an example, as those gases with absolute vapour pressure greater than 2.8 bar at a certain reference temperature. What is the reference temperature used in the definition?

A : +38.8 C.

WGNY : A plate type heat exchanger in a central cooling system has seawater leaking around the edges of some of the titanium plates. After inspection and reassembly following the manufacturers instructions the problem still exists. What action, from the options given, should be taken to rectify the problem?

A : Fit new gaskets to the each of the plates.

WGOY : Why is the maximum pressure in a Plate Heat Exchanger usually limited to about 10 bar?

A : Difficult to seal plates above this pressure.

WGRF : How often shall it be conducted an abandon ship drill and fire drill onboard a passenger ship?

A : Weekly



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

WGRL : If the temperature increase, what will happen with the interface in the bowl?

A : Interface towards center.

WGUM : What is the meaning of this symbol:

A : evacuation slide

WGVI : Sometimes an early warning of failure in High Voltage switchboards may be an unpleasant smell. If the switchboard uses gas circuit breakers, which of the following may indicate a potential problem?

A : Rotten eggs.

WGVS : What is the period of validity of Safety Construction Certificate

A : 5 years

WHGF : In case a fire alarm is sounded from the bridge, what action would you take as Engineer on Duty?

A : Start the fire pump

WHIT : What is the greatest interest of the "help" position ?

A : it lessens the survivor's heat escape

WHKT : Your vessel is moving in Panama Canal waters. When must the master be on the bridge?

A : When entering or leaving a lock, passing through Gaillard cut, berthing & unberthing, anchoring or heaving anchor.

WHLC : In U.S. waters the OPA rules have to be taken in considerations, but what types of ships do these rules affect?

A : All ships.

WHNY : One can check the functioning of the SART by:

A : activating the SART and checking the effect on the radarscreen

WHPM : Which one among the following information shall be marked on the container of an inflatable liferaft:

A : SOLAS A PACK or SOLAS B PACK according to the type of emergency pack enclosed

WHRB : One of the main purposes of refractories in the boiler furnace is to

A : prevent excessive furnace heat losses



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

WHRL : The accuracy of the position of a Cospas-Sarsat EPIRB established / determined by a LUT is:

A : 5 miles

WHWE : Who is the leader of the lifeboat drill (abandon ship drill)?

A : The appointed lifeboat commander.

WIAM : If you are required to splice an eye on a mooring wire (using the recommended 5 full tucks and 2 half tucks) the effective breaking strength of the wire will now be affected by the splice, and you would expect:

A : A reduction in strength of 10 % to 15 %

WIAN : What happens if the visual and audible fire signal at the control panel does not receive attention?

A : A signal will sound in the crew accommodation spaces after 2 minutes

WIBD : What is one of the dangerous states a survivor may suffer from?

A : Hypothermia

WIBF : If a vessel is fitted with "free flow system", what does it mean?

A : A vessel without ordinary bottom lines where the cargo flows from tank to tank through bulkhead valves.

WIBT : In what circumstances can a ships loading computer be used with confidence on a container vessel.

A : When the loading computer has been approved by Class.

WIEO : In which frequency band does a search and rescue transponder operate?

A : 9 GHz.

WIFG : Which one of the listed requirements regarding the stability of inflatable liferafts do not correspond to present regulations? The stability of inflatable liferafts shall be such that:

A : in the event of capsizing it will automatically attain a position providing an above water escape

WIFI : When should gangway nets be rigged?

A : Whenever the gangway is rigged.

WIFK : What is false regarding the function : "Transmission and reception of maritime safety information"

A : On area A1 this function is based on the use of VHF NBDP telex



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

WIJM : Which chapter of the General Civil Penal Code states that it is a serious punishable act taking an unseaworthy ship to sea?

A : Chapter 30

WIJO : What would be the effect of a faulty steam trap on a fuel oil heater causing condensate to build up in the heater exchanger?

A : reduced heat capacity of the heater

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A : reduced heat capacity of the heater

WIKE : Define the class of emission G3E :

A : Radiotelephony - Phase modulation

WIKF : How does the design of a general cargo ship provide the necessary longitudinal and athwartships strength of the bottom structure?

A : A strong double bottom structure fitted with longitudinals and plate floors

WIKF : If a General Cargo vessels Tonnes Per Centimeter immersion (TPC) is 28.80 in saltwater, what would be her TPC is water of density 1.015 T/m³?

A : 28.52

WIKF : If a vessel's Tonnes Per Centimeter immersion (TPC) is 28.80 in saltwater, what would be her TPC is water of density 1.015 T/m³?

A : 28.52

WIKN : Give the meaning of the following symbol:

A : location of embarkation ladder

WIME : The SART-transmitted signal will be most conspicuous on the radar-screen when the receiver:

A : is not fine-tuned

WIOO : What are the duties of a master if he has to leave a sick or injured seafarer behind in a foreign port?

A : Notify nearest Norwegian Consulate

WIIQA : If the temperature decrease, what will happen with the interface in the bowl?

A : Broken water seal, oil outside the top disc.



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

WIQW : Under international regulations what must be ensured when discharging a bulk cargo?

A : The method of unloading must not damage the ship's structure

WIQW : Under international regulations what must be ensured when unloading a bulk cargo?

A : The method of unloading must not damage the ship's structure

WITB : When can a partly loaded bulk cargo space be entered when the vessel is at sea?

A : In no circumstances except possibly in an emergency

WIUM : At which of the pressures shown should the low oil pressure trip operate on a freon compressor?

A : + 1.0 bar

WIYL : Which electronic component or system of components is this graphical symbol illustrating:

A : Operational amplifier

WIYR : Cooling water expansion tank in a closed cooling water system is designed to maintain a constant head on the system and:

A : Allow for increase in water volume

WJBE : When a ship is steaming along a course line, what is the importance of determining the set and rate of drift due to wind and current?

A : To determine if there is any danger of grounding or colliding with objects during drifting

WJCW : When commence discharging with a centrifugal pump, which valve is the last to be opened?

A : The pump's delivery valve (discharging valve).

WIJD : here do you find detailed information and specific technical requirements for life-saving appliances?

A : Life-Saving Appliance Code (LSA Code)

WJFG : Under international regulations which of the following is not defined as 'grain'

A : Concentrates

WJFG : What is defined as 'grain', under international regulations?

A : Pulses, oats and seeds



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

WJFH : The distress signal may only be transmitted when ordered by:

A : the captain/ master

WJFY : Many gas carriers are designed to carry liquefied petroleum gas (LPG). How is LPG defined in the IMO Gas Codes?

A : LPG is defined as propane and butane or a mixture of both.

WJFY : What is the definition of LPG?

A : Propane, butane and mixture of these.

WJGN : When trying to reverse a large slow speed diesel engine in the astern direction it cannot be turned on air even though it will start in the ahead direction. What is the likely cause of this problem?

A : The start is blocked because the air distributor has not moved to the astern position.

WJIU : Breathing apparatuses is an important piece of equipment for being able to fight a fire onboard a vessel. What routine precautions to be observed with regard to use and maintenance of such equipment?

A : All the mentioned alternatives.

WJMV : In a centrifugal pump, low pressure regions may occur in the flow at points where high local velocities exist. If vapourisation occurs due to these low pressure areas then bubbles occur. Such formation and collapse of bubbles is very rapid, and can generate very high pressure hammer blows which results in pitting, noise, vibration, and a fall off in the pump efficiency. Is this known as:

A : Cavitation.

WJMW : Which of the following statements is correct when discussing warm clothing and passengers?

A : Warm clothing will protect passengers from hypothermia.

WJOP : What is the main difference between a stuffing box gland and a mechanical seal on a centrifugal pump?

A : If packing fails the pump can be kept running by tightening the glands, but if a mechanical seal fails it must be renewed to stop the leakage

WJOV : In a single side skin bulk carrier of 180m in length constructed in 2001 and carrying cargo of density 1,780 kg/m³, or above, which cargo hold is strengthened to withstand flooding?

A : The foremost cargo hold

WJPF : If water contamination occurs in the crankcase oil of an auxiliary engine the oil viscosity will:

A : Increase.

WJQC : Whenever there is a major bleeding, the first priority should be to:

A : Stop the bleeding



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

WJTA : A diesel engine cylinder head is to be overhauled but the spring compressor for removing the valve collets is found to be damaged and unusable. How should the task be carried out by ships engineers?

A : Delay the work until a new spring compressor is available or fabricate a suitable

WJUF : How is the condenser in a fresh water evaporator normally cooled?

A : Seawater

WJUF : How is the condenser in a fresh water evaporator normally cooled?

A : With seawater

WJUT : A galley hot plate uses a Nichrome / Magnesium Oxide heating element and is to be tested before being put into service for the first time. An insulation resistance test yields a reading of 0.3 M Ohm. Which action should be taken?

A : Apply reduced voltage to the element for a few minutes. Then retest and if ok put into service.

WJUT : A Nichrome / Magnesium Oxide heating element is to be put into service for the first time. An insulation resistance test yields a reading of 0.3 M Ohm. Which action should be taken?

A : Apply reduced voltage to the element for a few minutes. Then retest and if ok put into service.

WJWA : Indicate the correct name for the part marked on the sketch:

A : Crosshead

WJYK : Can RNC charts be used for voyage planning?

A : Only in conjunction with paper charts

WKCR : GMDSS regulations require that vessels carry two-way VHF for survival craft. How many are required, and when do the regulations apply?

A : 3 sets. New-builds from February 1992, other vessels from February 1995

WKJJ : What type of heat exchanger is shown?

A : Plate

WKKA : What to do if Your ship receive HFO with high density , from the last bunkering, to obtain the best purifying result?

A : According to the nomograms you select a gravity disc with larger hole diameter

WKMO : Where shall you be able to activate the ship security alert system on board passenger ships?

A : From the navigation bridge and in at least one other location



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

WKQD : Which one of the listed requirements regarding the stability of inflatable liferafts do not correspond to present regulations? The stability of inflatable liferafts shall be such that:

A : in the event of capsizing it will automatically attain a position providing an above water escape

WKSI : The overspeed shutdown is to be tested on a high speed four stroke diesel engine driving through a pneumatic clutch. The overspeed protection is provided by a solenoid operated dump valve in the governor servo system activated by an electrical signal from a small synchro motor. What is the preferred method of testing such a shutdown?

A : With the engine off load manually increase the governor speed setting until the shutdown operates, reduce the shutdown set point if necessary.

WKSS : Indicate the correct name for the tool on the sketch:

A : Adjustable wrench

WKWA : On a Container vessel, where should grease be applied to a twistlock?

A : Between the twistlock cone and associated housing

WKWA : Where should grease be applied to a twistlock?

A : Between the twistlock cone and associated housing

WLEH : With respect to the ISM, what training in addition to lifeboat and fire drills must be carried out?

A : Familiarization, and other drills identified as necessary by the ship

WLFN : On a RoRo vessel, what must be ensured onboard the vessel prior to commencing cargo?

A : Cargo hold ventilation systems are operational

WLFN : What must be ensured prior to a ro-ro vessel berthing?

A : That the loading ramp can be lowered for cargo operations at the berth

WLFN : What must be ensured prior to berthing?

A : That the loading ramp can be lowered for cargo operations at the berth

WLIK : A separate garbage logbook has to be kept onboard, which item(s) is not required to be filled in?

A : Person in charge

WLJH : What signal, if any, is specified in SOLAS as the "Abandon ship" signal?

A : The "Abandon ship" signal is not specified, only the general emergency alarm signal is stated



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

WLNm : Which one of the listed requirements regarding lifeboat propulsion do not correspond to present regulations?

A : The engine shall be provided with an electric power starting system with rechargeable energy batteries

WLQU : Which of the following has the highest fat content?

A : Plaice

WLVA : To whom working on Norwegian ships does the Seamens Act in principle apply?

A : To everyone engaged in work on board, except those who only work on board while the ship is in port

WLVX : What kind of information must be posted in all passenger cabins?

A : The route to musterstation, how to put on lifejacket and different emergency signals used onboard the ship.

WLXS : Large slow speed diesel engines are usually of the crosshead type and have various arrangements to deliver lubricating oil directly to the crosshead bearings and guides to ensure adequate lubrication. Why are the crosshead bearings considered differently to the other bearing in this type of engine in respect of lubrication requirements?

A : The running surfaces oscillate relative to each other during operation rather than rotate and therefore full film hydrodynamic lubrication is not possible

WMBK : What do you understand by the term "luffing"?

A : The raising or lowering of a crane jib, moving the head of the crane and therefore a suspended load horizontally towards or away from the crane.

WMED : Due to the relative low resistance of a Pt 100 sensor it may be necessary to compensate for the cable-resistance to ensure a correct reading. Which of the 4 alternatives given is correct for the connection of this compensation resistance?

A : Figure 3.

WMED : Due to the relative low resistance of a Pt 100 sensor we might have to compensate for the cable-resistance to ensure a correct reading. Which of the 4 alternatives given is correct for the connection of this compensation resistance?

A : Figure 3.

WMED : Due to the relative low resistance of a Pt 100 sensor we might have to compensate for the cable-resistance to ensure a correct reading. Which of the 4 alternatives given is correct for the connection of this compensation resistance.

A : Figure 3.

WMEF : What do you understand by the term Maximum Continuous Rating, MCR, of a diesel engine?

A : The maximum possible percentage of oil being burned effectively in the cylinder volume available.

WMEF : What do you understand by the term "Maximum Rating" of an engine?

A : The maximum possible percentage of oil being burned effectively in the cylinder volume available.



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

WMIK : This circuit is a logic gate with two input signals, A and B, and one output signal Q. Which type of logic function does the gate perform?

A : NOR gate

WMIK : This circuit is a logic gate with two input signals, A and B, and one output signal Q. Which type of logic function is the gate giving?

A : NOR gate

WMIL : Injuries resulting from slips and falls constitute the largest percentage of accidents that occur in the catering department. What shall be done to reduce this high accident rate?

A : Keep the floors and decks free from fat and grease.

WMLE : What does the letter 'P' indicate, under the IMDG Code?

A : A Marine Pollutant

WMLE : What is the letter 'P' under the IMDG Code?

A : Marine Pollutant

WMMO : Which one among the following information shall be marked on the container of an inflatable liferaft:

A : date when last serviced

WMOG : The sound-level of the speaker on e.g. an MF/HF radiotelephony installation is adjusted with:

A : AF-Gain

WMXX : As per SOLAS every fast rescue boat shall be provided with:

A : Thermal protective aids for at least 10% of the persons the boat is permitted to accommodate or two, whichever is greater

WMYB : What ensures the safe operation of twistlocks?

A : The spring holding the twistlock cone in the 'closed' position being resilient

WMYB : Which publication should be referred to when planning the lashing of containers?

A : The Cargo Securing Manual (CSM)

WMYB : Which publication should be referred to, when planning the lashing of containers?

A : The Cargo Securing Manual (CSM)



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

WNDB : Read the text in the diagram and answer the following question: When should training in personal survival techniques be given?

A : Before being employed

WNGV : This circuit consists of two resistances, $R(1) = 12 \text{ ohm}$ and $R(2) = 6 \text{ ohm}$, connected in parallel. Calculate the equivalent value $R(S)$ of the two resistances.

A : $R(S) = 4 \text{ ohm}$

WNJV : On area A1 the function "Transmission of ship to shore distress alerts" is mainly based on:

A : the use of VHF DSC

WNLO : Who are required to keep time sheets (record of working hours) on NIS ships?

A : The crew members embraced by the Act 3 June 1977 relating to hours of work on board ship

WNLU : Conform SART requirements the signal must be visible on the ship's radar from a distance of:

A : 5 miles

WNLW : The nationality of a ship can be determined by means of:

A : call sign

WNMM : The torsion meter for the main propeller shaft is reading high. The torque is sensed using the angle of twist principle with two clamp rings attached to the shaft at a fixed distance, with stationary proximity switches for measuring the angle of twist and also shaft speed fixed to a rigid stool. What is the most likely cause of the high reading?

A : Circumferential slip of the after clamp ring in the opposite direction to shaft rotation.

WNYC : On a RoRo vessel, what is the common factor between a clover leaf and crinkle bar?

A : They are items of fixed lashing equipment

WNYC : What is common between a clover leaf and crinkle bar?

A : They are items of fixed lashing equipment

WOCH : What is the purpose of "fire wires" on an oil tanker and when would they be positioned?

A : Wire for pulling burning ships off the pier

WOCH : What is the purpose of "fire wires" on an oil tanker and when would they be put out?

A : Wire for pulling burning ships off the pier



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

WOCP : During inspection of the cylinder bore of a high speed diesel engine it is found that the surface of the liner has an extremely smooth and glassy appearance. From the options given select the best action, if any, that should be taken?

A : Use a flexible honing brush to deglaze the liner to a cross hatched plateau finish to improve both oil retention and running conditions.

WOIF : What would you do before giving a boiler a "bottom blow"

A : raise the water level a couple of inches above normal

WONU : What is the procedure if a tank lorry containing dangerous goods is not clearly marked?

A : Refuse to load the vehicle

WOQM : On a hold inspection of a Bulk Carrier it is noted that a number of transverse frame beam knees are slightly distorted; what is the significance of this?

A : This indicates the vessel is suffering racking stress and is potentially serious

WOTT : What is the meaning of this single letter signal?

A : I am dragging my anchor

WOVH : Which one of the listed requirements regarding lifeboat equipment do not correspond to present regulations? The normal equipment of every lifeboat shall include:

A : sea-charts and navigating equipment

WOWG : What document is required before a mariphone is placed on board?

A : A license, given by or on behalf of the Minister of Traffic department

WOXB : Who is responsible that regulatory working hours are not exceeded?

A : The master and department heads.

WOXE : What is the purpose of the Oil Mist Detector?

A : To detect oil mist (explosive atmosphere in the crankcase).

WOXY : What does this crane signal indicate?

A : Raise the boom, hold the load.

WOYY : Give the meaning of the following symbol

A : Start engine



WPDB : What is a Jensen Sling used for?

A : Loading and discharging paper reels

WPDB : With regard to general cargo operations, what is a Jensen Sling used for?

A : Loading and discharging paper reels

WPER : Can the Master of a ship also be the Safety Officer

A : No, there could be a conflict of interest

WPIT : Can you stow Butyl Alcohol adjacent to Caustic Soda ?

A : Yes

WPOW : $P = U \times I \times \sqrt{3} \times \cos(\phi)$ What is the formula for I ?

A : Formula 1

WPOY : How many hand held distress flares are carried in each lifeboat?

A : 6

WPQH : Occasions may occur that survey has to be undertaken via rafting. What is recognized as minimum height between lowest flat-faced web and water level?

A : 1.0m?

WPSE : Consider the situation sketched below. What can happen if the tugmaster is not careful?

A : The tug may be turned across your bow with the danger of being turned over

WPTW : Chemicals and harmful substances are safely stored in a designated locker on board, why?

A : For safety reasons. Many substances found onboard are capable of damaging the health and safety of those exposed to them. Before any chemical or harmful substance is delivered to a crewmember,

WPUO : What is the status of the rules of the SOLAS convention?

A : Mandatory.

WPWE : Why is the tightening of the timing chain important?

A : To avoid high wear down of chain and chain wheel tooth and a potential breakdown.



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

WQEP : What are we using the ASTM table 53A/B for?

A : With given density at observed temperature we find a corresponding density at 15 degrees Centigrade.

WQFO : What is the general emergency alarm signal to be sounded by the ships whistle and alarm bells in case of an emergency situation?

A : Seven short blasts followed by one prolonged blast

WQHI : You are in an area of restricted visibility, close to a port. You hear this signal. What vessel does it come from and what additional information does the signal provide?

A : A vessel at anchor, more than 100 metres in length. She is sounding the additional signal to give warning of her position.

WQKG : Where is the best position of the oil/water interface in this figures?

A : Position A

WQOW :When is the parallel sweep search used?

A : When searching large area

WQOX : Many chemical tankers are fitted with deepwell centrifugal cargo pumps. What is the process by which any leakage of cargo or hydraulic oil into the pump cofferdam is detected?

A : Purging.

WQRV : What is false regarding the function : " Reception of shore to ship distress alerts "

A : On all areas this function is based on the use of SRSAT COSPAS Epirb

WQVL : Why should cargo residues be removed from bilge wells?

A : Because bilge sounding pipes could become blocked

WQVL : Why should cargo residues be removed from bilge wells on a General Cargo vessel?

A : Because bilge sounding pipes could become blocked

WQXT : A radio-telex call to a coast-station is generally started up in the:

A : ARQ-system

WQYO : The exhaust gas temperature is too high in all cylinders because of:

A : Charge air temperature is too high.



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

WRBJ : Which of these can be loaded in the same hold as steel coils?

A : Steel rebars

WRBJ : Which of these can be loaded in the same hold of a General Cargo Vessel, as steel coils?

A : Steel rebars

WRBJ : Which of these cargoes can be loaded in the same hold as steel coils, in a general cargo vessel?

A : Steel rebars

WRBX : Insufficient cooling water circulation in a refrigeration condenser will have the following effect on the compressor:

A : High delivery pressure

WRDA : In describing the characteristics of oil cargoes or oil / water slops, what is a mercaptan?

A : A colourless, odorous gas, with a smell similar to rotting cabbage and which is generated naturally by the degradation of natural organisms, as may be found where water has remained under oil

WRHY : As part of the duties a rating on boiler watch is requested to assist with the daily chemical treatment for the boiler and feed water systems. Where will the rating find the information relating to the hazards associated with the chemicals involved in this task?

A : The material safety data sheets supplied with the chemicals.

WRHY : While on boiler watch in the engine room a rating is requested to assist with taking on stores. The task will take about half an hour. What should the rating do?

A : Contact the engineering officer of the watch for permission to assist and to arrange a relief for the duration of the store taking.

WRIS : When must sidescuttles in passenger ships where the sills are below the margin line be kept closed and watertight?

A : During navigation between ports

WRKF : Which one of the listed requirements regarding the general emergency alarm system do not correspond to present regulations? The general emergency alarm system shall:

A : be capable of operation from fire stations aboard the ship

WRQF : A 6-men inflatable liferaft shall be carried as far forward as is reasonable and practicable. Where is the best stowing position?

A : Under the forecastle.

WRQU : Which of the following is an acceptable reason to avoid a mandatory prewash and may result in an exemption being granted by the Government of the receiving Party?

A : That the unloaded tank is to be reloaded with the same substance or another substance compatible with the previous one and that the tank will not be washed or ballasted prior to loading.



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

WRQU : Which of the following may be considered as an acceptable reason not to carry out a mandatory prewash and result in an exemption being granted by the Government of the receiving Party?

A : That the unloaded tank is to be reloaded with the same substance or another substance compatible with the previous one and that the tank will not be washed or ballasted prior to loading.

WRTO : How often are "abandon ship" drills required to be held on cargo vessels?

A : Once every month

WRUH : The type of Inmarsat station A,B,C,M is recognized by

A : the first digit of the identification

WRVV : Low voltage ships tend to have insulated neutral systems because

A : In the event of an earth fault vital equipment will not trip

WRVV : Low voltage ships tend to have insulated neutral systems. What is the reason for this?

A : In the event of an earth fault vital equipment will not trip

WRYM : During operation: What is one of the most important differences between a centrifugal pump and a piston pump?

A : It is easier to damage a centrifugal pump than a piston pump if they run dry.

WRYO : What separation temperature is recommended for lubricating oil of a trunk piston engine operating on HFO

A : 95 Celsius

WSBC : The thermal insulation provided to the wearer of an immersion suit made of material with inherent insulation is sufficient to ensure that the wearers body core temperature does not fall more than:

A : 2°C after a period of 6 h immersion in calm water at a temperature of 0°C ... 2°C

WSDQ : An excessive pressure drop across a lube oil strainer could indicate:

A : That the strainer needs cleaning.

WSEL : With maintenance of batteries it is of primary importance that:

A : the space where the batteries are stored is properly ventilated

WSGV : The training manual shall contain instructions and information in easily understood terms and illustrated wherever possible. Which of the following objects do not have to be explained in detail in the manual according to present regulations?

A : Means of escape - escape routes



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

WSLD : What are the prerequisites for a collective wage agreement to be applied to service on NIS ships?

A : That the collective wage agreement states (1) that it applies to such service and (2) that the agreement is subject to Norwegian laws and Norwegian courts of law unless courts of another country is explicitly mentioned

WSMA : At sea there is a container adrift which can be a danger for navigation. The call starts with:

A : SECURITE (3x)

WSOR : A 3-phase cage rotor induction motor requires protection by a time delay overload trip. What is the reason for this?

A : It will allow for inrush current or motor specific faults

WSOR : A 3-phase induction motor requires protection by an overload trip because

A : It will allow for inrush current or motor specific faults

WSOR : A 3-phase induction motor requires protection by a time delay overload trip. What is the reason for this?

A : It will allow for inrush current or motor specific faults

WSPP : What is the minimum length of rubber insert when replacing a damaged section of the hatch cover seal?

A : 500 mm

WSVN : You are alongside, port side to, about to commence loading several grades of chemicals. The Duty Officer instructs you over the walkie-talkie to proceed to the port manifold and open the valve to 4 port line. When you get there, there is no hose connected to that line. What will you do?

A : Report the situation back to the Duty Officer. Request clarification and confirmation of the instruction.

WSXS : What does the term stoichiometric mixture mean when used in relation to combustion of hydrocarbon fuels?

A : An ideal mixture of fuel and air in which all of the fuel and oxygen in the mixture are consumed during combustion.

WTJH : Which of the following detailed explanations should be mentioned in the Training Manual ?

A : The use of radio life-saving appliances

WTPW : The thermal conductance capability is expressed by a materials thermal conductance number and states the heat quantity. What is the denomination for heat quantity?

A : Watts.

WTPW : The thermal conductivity of the insulation used in the cargo containment system of an LNG carrier is an important factor in selecting the type of insulation. How will an insulation material with a low thermal conductivity affect the LNG cargo?

A : Reduce the boil off rate.



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

WTTL : Why are accommodation spaces separated from the remainder of the ship by thermal and structural boundaries?

A : To provide means of escape for the passenger and crew

WTUD : When we are measuring salinity with a salinometer, the sensing device is:

A : Electrodes

WTUD : When we are measuring salinity with a salinometer, the type of sensing device is:

A : Electrodes

WTVT : At which of the pressures shown should the low oil pressure trip operate on a freon compressor?

A : + 1.0 bar

WTWR : Read the text in the diagram and answer this question: What should be given to prospective seafarers?

A : Approved training

WTWV : Referring to the SOLAS convention, how often should a crew member on a cargo ship participate in one abandon ship drill and one fire drill?

A : Monthly

WUAA : The book "Excerpts from The Norwegian Passenger and Cargo Ship Legislation, etc." has notes about whether international regulations have been implemented by Norway. Where can you find these notes?

A : In the main Section numbered VII

WUCJ : On a Container vessel, with regard to raised deck sockets, what must be ensured prior to commencing cargo operations?

A : They must be clean and free of internal debris

WUDH : Frozen cargo such as lamb carcasses requires careful loading to ensure a neat and tight stow in the hold and requires the crew and stevedores to have considerable skill to achieve this. Which of the options given is the main reason for this?

A : The carcasses are of an irregular shape.

WUFC : What advantage(s) has the use of Inert Gas System on a oil tanker?

A : Lowers oxygen content in the tank

WUFW : What is the meaning of this symbol ?

A : Fasten seat belts



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

WUIH : What is a MSDS ?

A : A publication which contain all information regarding the product in question and should be posted in public areas so all crewmembers have access to the necessary information.

WUIM : Which of the given options best describes the term Gas Dangerous Spaces or Zones onboard liquefied gas carriers as defined in the IMO Gas Codes?

A : Gas dangerous areas onboard gas carriers are cargo compartments and cargo piping, hold spaces and other spaces where cargo pipes are located, compressor and pump room, open deck over cargo area

WUIO : What does ODME mean?

A : Oil Detection Monitoring Equipment.

WULC : Which of the following statements is correct?

A : Hot rolled steel coils may be loaded in rain

WUNO : LNG carriers often operate between two fixed ports. Why is there likely to be a significant difference in the amount of LNG onboard arriving at the discharge port compared to the amount onboard departing the loading port?

A : Part of the cargo is used as ships fuel in the form of boil off gas.

WUOY : What is the purpose of "expansion couplings" on the longitudinal pipelines of oil tankers?

A : To allow the pipelines to follow the ships flexing movement when pitching.

WUOY : What is the requirement for isolating slop tanks on combination carriers when cargoes other than liquied cargoes are carried?

A : A blank flange.

WUOY : What is the requirement for isolating slop tanks on combination carriers when cargoes other than liquid cargoes are carried?

A : A blank flange.

WUOY : What is the requirement for isolating slop tanks on combination carriers when cargoes other than liquied cargoes are carried?

A : A blank flange.

WURM : What pressure is present in the crankcase of a freon compressor?

A : The same as suction pressure.

WURR : What do you have to ensure when pumping from double bottom tanks to day- and settling tanks?

A : That the pump is stopped in time to avoid overflowing.



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

WUSJ : In what kind of atmosphere should tank washing be carried out when no inert gas plant is in operation?

A : Too lean (less than 2% by volume of hydrocarbons) or over rich (in excess of 15% by volume of hydrocarbons).

WUUC : What is the secondary purpose of a VHF-installation onboard?

A : To take part in public traffic

WUVR : Which one of the listed requirements regarding equipment for inflatable liferafts do not correspond to present regulations? The inflatable liferaft shall be fitted with:

A : a buoyant lifeline bucketed around the outside of the liferaft

WUWJ : Which of the following frequency bands would most likely provide reliable communications between two stations that are 100 miles apart?

A : The Medium Frequency (MF) band.

WUWN :What transmitting equipment as a rule is not allowed for us in territorial waters:

A : MF-transmitters

WUWN :What transmitting equipment as a rule is not allowed to be used in territorial waters:

A : MF-transmitters

WVDH : What will happen when the ship arrives in Rotterdam?

A : They have to bunker fuel oil and diesel oil

WVFN : Oil tankers built and delivered after 6th July 1986 must have a double hulled ballast arrangement extending throughout the cargo tank length, or wing ballast tanks that extend throughout the cargo tank length. If it is the latter, what design feature is applied to guard against pollution in the event of the bottom being breached?

A : The cargo tank levels must be set so that hydrostatic pressure will stop oil outflow.

WVFS : How long does it take for a fixed low expansion foam fire-extinguishing system of an engine room to discharge a 15 cm thick layer of foam on the largest single area over which oil fuel is liable to spread?

A : Less than 5 min

WVFX : During a walk around of a stow of refrigerated containers, one of the containers is noted to be quiet and has a red light showing on the control panel. Select, from the options given, the most likely cause of this condition.

A : The red light indicates that there is a fault with the containers refrigeration unit.

WVHL : Halons are decomposed in toxic products when they are applied at temperatures near

A : 500 °C



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

WVKS : The buoyancy and the stability of a lifejacket is sufficient to turn the body of an unconscious person in the water from any position to one where his mouth is clear of the water in not more than:

A : 5 sec

WVLL : Choose the group of electrical power supplies that best fits the identification of "Emergency"

A : Emergency diesel and batteries

WVLQ : When double banking whilst underway, it is preferable for one vessel to maintain steerage way in a constant direction while the other manoeuvres alongside it. During this period it is recommended that:

A : The wind and sea should be from ahead or nearly ahead

WVMK : Why should engine and boiler rooms be kept clean and any oil spillage cleaned up immediately?

A : To reduce risk of fire and the risk of slipping.

WVMK : Why should engine and boiler rooms be kept clean and any oil spillage cleaned up immediately?

A : To reduce danger of fire and the risks of sliding.

WVMM : This amplifier circuit is a common configuration used to amplify the difference in voltage between two input signals; in this case input 1 and 2. What is this amplifier called?

A : Differential amplifier

WVNC : The weak link of a float-free arrangement for liferafts must break under a strain of:

A : 2,2 kN ± 0,4 kN

WVQO : What will the effect be, if you have a fuel injector valve that is dripping after the injection is finished ?

A : Damage to piston and liner.

WVTC : You are mid-way through the discharge of several grades of chemicals. You hear a sudden change in tone on a cargo pump and notice hydraulic oil spraying from a broken oil supply pipe. What will you do?

A : Activate the hydraulic emergency stop. Notify the Duty officer. Close all manual cargo valves. Prepare for emergency spill response.

WWAC : In which cargo hold(s) should water level detectors be fitted, on bulk carriers?

A : In all cargo holds

WWAC : Where should water level detectors be fitted on bulk carriers?

A : In each cargo hold



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

WWBR :What is the time limit for abandonment of ro-ro passenger ships?

A : 30 minutes from the time the abandon ship signal is given

WWDQ :The bottom end bolts employed in 4 stroke diesel engines are usually given a finite life and must be replaced periodically. What would be the normal failure mode that would affect these bolts if they were not replaced as required?

A : Failure due to fatigue stresses

WWGH :What precautions should you take when washing down the galley area at the end of the working day?

A : All power to the galley range and other electrical equipment should be switched off and isolated; ensure you are suitably and safely dressed to avoid electrical, slipping and other hazards.

WWGO :How often shall drills for the operation of watertight doors, side scuttles, valves and closing mechanism of scuppers, ash-chutes and rubbish chutes take place in passenger ships?

A : Weekly

WWKC :Which of the following policies will best prevent germs and contamination being introduced into the galley area?

A : Prohibit unauthorised persons from the galley area at all times.

WWKT : The brine used to salting or curing meat contains nitrites. What effect do the nitrites have on the meat?

A : Makes the meat take on a reddish colour after preparation.

WWLL : On the figure 4 possible definitions of the term "FORECASTLE" are given. Which one is the correct one?

A : Forecastle is given by B on the figure

WWME :What will a cadet find in the maintenance manual?

A : He will find a lubricating chart in the maintenance manual

WWND :Which hazardous good is contained in class 5.2 according to the IMDG code?

A : Organic peroxides.

WWNH :Define the class of emission G3E :

A : Radiotelephony - Phase modulation

WWOX :Who will carry out a Certificate of Fitness survey

A : MCA only



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

WWRM :Which of these definitions is that of a "Marine Pollutant" under the IMDG Code?

A : A substance which is subject to the provisions of Annex III of MARPOL 73/78, as amended.

WWTX : What is the main difference to surveys with the introduction of Harmonization of Statutory Certificates

A : All safety surveys except Passenger Certificate will be carried out at the same time every 5 years

WWYS : If making a new pilot ladder onboard, which of the following ropes would you use in its construction as side ropes on which the steps are fastened?

A : Uncovered manila rope.

WWYY : On a Container vessel, what is the Maximum Securing Load (MSL) for a wire rope lashing connected to an eye plate by means of a shackle?

A : The Minimum Securing Load of either the wire rope or shackle or eye plate

WWYY : What is the Maximum Securing Load (MSL) for a wire rope lashing connected to an eye plate by means of a shackle?

A : The Minimum Securing Load of either the wire rope or shackle or eye plate

WXCD : Which one of the listed requirements regarding hand flares do not correspond to present regulations? The hand flare shall:

A : emit smoke of a highly visible colour

WXCJ : Some new maintenance routines are being planned and a risk assessment is necessary so that the required procedures can be entered into the ships Safety Management manual. Which of the following should be the first step in this risk assessment process?

A : Identify the hazards that may exist which may affect personnel involved with the maintenance routines.

WXDB : The capacity of a battery is expressed in:

A : volt x hours

WXEU : What happens to green vegetables in the presence of ethylene gas?

A : They turn yellow

WXEU : What happens to green vegetables when exposed to the presence of ethylene gas?

A : They turn yellow

WXFP : One of the sailors needs urgent medical assistance. The VHF-call starts with:

A : PAN PAN (3x)



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

WXFR : How long may the signal of a detector be left unacknowledged before it begins to ring automatically in every crew accommodation spaces, service spaces, control stations and machinery spaces of category A?

A : 2 min

WXHI : Large bulk carriers are more likely to suffer from cracks in structure in which of the following parts of the vessel?

A : Around hatch corners and upper ballast tanks amidships

WXJR : What is the meaning of the term "valve clearance"?

A : The clearance between the rocker arm and valve pushrod.

WXML : Which of the below structures of bulk carriers are considered critical?

A : Upper and lower connection of main side frames

WXPB : What must be done once the cargo holds have been opened to discharge logs?

A : Measure oxygen levels prior to allowing persons to enter the hold

WXPB : What must be done once the cargo holds of a General Cargo ship have been opened to discharge logs?

A : Measure oxygen levels prior to allowing persons to enter the hold

WYCJ : Which item among those below is included in the normal equipment of every lifeboat ?

A : six hand flares

WYFH : Is a violation of the provision relating to medical examination of seafarers punishable?

A : Yes, as per the General Civil Penal Code Chapter 42

WYKR : On a container vessel why is it important not to exceed stack allowable weights?

A : It can cause failure of the corner posts of the containers stowed at the bottom of the stack

WYOF : A conventional reefer vessel is to load frozen beef in cartons and also frozen carcass lamb. The vessel has four decks - A being the upper tween deck and D being the lowest deck. From the options given select the one that gives the cargo distribution that would result in the largest GM.

A : Fill decks A and B with frozen carcass lamb and decks C and D with frozen beef.

WYQX : What is the best method for ensuring that the cylinder powers of a high speed diesel engine, fitted with a monoblock multi-cylinder fuel pump, are correctly balanced?

A : Have the fuel pump phased and calibrated in a test workshop.



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

WYQY : Which of the following has the highest diffusion resistance?

A : Polyurethane foam.

WYQY : Which of the following insulation materials that are used in the cargo containment systems for LNG carriers has the highest diffusion resistance?

A : Polyurethane foam.

WYQY : Which of the following insulation materials that are used onboard gas carriers has the highest diffusion resistance?

A : Polyurethane foam.

WYSA : If the general/fire alarm are sounding, and evacuation is required. What is the best way to ensure that all passengers are aware of the situation?

A : Public announcement system to be used for informing. The cabin attendant should proceed to their cabin section, and search all cabins. If the area is inaccessible report to their superior.

WYUO : When cleaning stainless steel tanks, it is generally required that the last water wash be of fresh water to avoid salt water or chloride damage. However, if you took fresh water from ashore and found the water chlorinated for disinfections purpose, you would:

A : Normally use it, as free or dissolved chlorine is not aggressive towards stainless steel?

WYWC : Cargo compressors are fitted on LPG carriers as part of the cargo and vapour handling system. Why is it important to bar over an LPG compressor before starting it up?

A : To prove there is no liquid in the cylinders.

WYWC : Cargo compressors are fitted on LPG carriers as part of the cargo and vapour handling system. Why is it important to bar over a piston type LPG compressor before starting it up?

A : To prove there is no liquid in the cylinders.

WYWG : What is the correct lifting technique?

A : Legs bent, back straight, using leg muscles to lift

WYWL : On a RoRo vessel, when checking cargo lashings during the voyage what must duty crew members pay special attention to?

A : The tightness of lashings per cargo unit

WYWL : When checking cargo lashings what must duty crew members pay special attention to?

A : The tightness of lashings per cargo unit

WYXA : A decrease in the viscosity of the lubricating oil in a trunk engine may be due to dilution by:

A : Diesel oil.



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

WYXD : Where would you look for information on the ratings applied to a vessels fire ratings on her bulkheads, based on SOLAS requirements?

A : - The Cargo Ship Safety Construction Certificate.

WYXW : What can be used to reduce the effect of the state of sea-waves?

A : Vegetable / Fish Oil

WYU : The type-indication of the radio set is mentioned in:

A : the safety certificate (S.C.)

XAAT : For what purpose do we have deck water spray on gas carriers?

A : All ships carrying flammable cargoes must have deck water spray to flush cargo spill overboard and cool cargo area if fire

XAAV : The air cock on a boiler is located at

A : Highest point of the steam and water drum

XABR : What will happen in a purifier bowl if either; oil density, viscosity or flow increase

A : The interface moves outwards

XAKS : Is it recommended to adjust the spring tension on the fuel valves during operation to achieve:

A : Only on the fuel injection valve test rig.

XAKS : Is it recommended to adjust the spring tension on the fuel valves during operation to achieve:

A : Not recommended at all

XALL : With regard to dry chemical powder fire-extinguishing systems in the cargo area of gas carriers, what is the required number of self-contained independent dry chemical powder units?

A : At least two units.

XALL : With regard to dry chemical powder fire-extinguishing systems in the cargo area of LNG carriers, what is the required number of self-contained independent dry chemical powder units?

A : At least two units.

XALL : With regard to dry chemical powder fire-extinguishing systems in the cargo area, what is the required number of self-contained independent dry chemical powder units?

A : At least two units.



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

XALN : This is a simplified block diagram of a dc generator and its voltage regulator. Find the value of the feedback constant H if the reference VR is a 45-Volt battery and the terminal voltage V_t is to be 250 Volt.

A : $H = - 0.178$

XAMJ : In most colour coding systems for kitchen knives, what colour is used only for knives used in the preparation of raw fish?

A : Blue.

XAMJ : In most colour coding systems for kitchen utensils, what colour are knives used only in the preparation of raw fish?

A : Blue.

XAML : U-tube manometers are often used to measure differential pressure. Which of the listed pressures are U-tube manometers mostly used for?

A : Low differential pressures

XAML : U-tube manometers are often used to measure differential pressure. Which of the listed pressures is U-tube manometers mostly used for?

A : Low differential pressures

XAMN : With no.1 and no.2 alternators running in parallel and the kW loads equally shared, one alternator is drawing much higher current than the other. What does this indicate?

A : The alternators are not generating the same voltages and should be adjusted on automatic voltage regulator rheostats

XANJ : Why should trousers worn in the galley be full length, but loose fitting?

A : To lessen the chance of scalding, if a hot liquid is spilled.

XAPL : What do you understand by the expression Slave Controller

A : The secondary controller in a cascade control system

XAPL : What do you understand by the expression Slave Controller?

A : The secondary controller in a cascade control system

XAPT : On the figure 4 possible definitions of the term "CENTRE LINE" are given. Which one is the correct one?

A : Centre line is given by A on the figure

XAQK : What was blocking the grease pipe?

A : Grease was blocking the grease pipe



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

XAQS : Choose the resistance R from the list A to D which allows highest possible current without exceeding 5W power consumption.

A : R(S) = 25 ohm

XARL : If a leak starts from a flange joint during cargo discharge, which of the following should you do?

A : Report the leak to the Responsible Officer. Depending on the pipeline arrangement, stop the discharge, or isolate the section of pipeline concerned and relieve the pressure inside the pipeline

XARL : You have just started to load a cargo of Toluene. A drip starts from a flange on a hose loop on the off-shore manifold. What will you do?

A : Report the leak to the Responsible Officer. Attempt to tighten the bolts on the flange. If the leak continues, stop the discharge and, when instructed, change the gasket. Clear any cargo sp

XATB : During cargo or bunker operations, oil response equipment is to be:

A : Ready for immediate use

XATX : One of the checks during the annual Class survey of the UMS functions is focusing on cleanliness of the engine room. What is the reason for such a check ?

A : To reduce the general risk of fire in an unmanned engine room.

XAVI : A frequency of 150 MHz has a wavelength of :

A : 2m

XBAR : On a Bulk Carrier, what are hydraulic jacks used for?

A : Raising and lowering hatch covers panels

XBAR : What are hydraulic jacks used for?

A : Raising and lowering hatch covers panels

XBEC : The majority of large slow speed diesel engines used for main propulsion purposes are direct drive to a fixed pitch propeller? What is the main reason for this arrangement?

A : A fixed pitch propeller can operate with reasonable efficiency at the same sort of speed

XBEW : How many maintenance methods must be provided by ships sailing in area A3 and A4

A : 2

XBFO : What is the minimum number of firemans outfits that should be carried on a cargo ship?

A : 2



XBIB : What is the correct operation for Slow-turning?

A : Putting in auto order when on stand-by, to be effected every 10 - 15 minutes

XBIB : What is the correct operation of the slow-turning facility fitted to some large 2 stroke main propulsion diesel engines?

A : Putting in auto order when on stand-by, to be effected every 10 - 15 minutes

XBQB : What is the correct medical term to describe the process by which a crew member has accidentally swallowed a liquid chemical?

A : Ingestion.

XBQB : What is the correct medical term to describe the process by which a crew member has accidentally swallowed some liquid chemical?

A : Ingestion.

XBQB : You have just started to load Dicyclopentadiene to 5 port and starboard cargo tanks, but no cargo seems to be coming into the tanks. What will you do?

A : Stop cargo - notify the Duty Officer and / or the terminal depending on the agreed communication procedure. Re-check the lines, valves and connections carefully, bearing in mind that there mig

XBQI : What refrigerant temperature would you expect to find at the compressor suction of an air conditioning system?

A : +5 °C

XBQJ : Which official body would be notified about a death on board

A : Register of Shipping and Seamen

XBQP : On a RoRo vessel, who is responsible for discussing the cargo plan with duty crew members?

A : The ships cargo or duty officer

XBQP : Who is responsible for discussing the cargo plan with duty crew members?

A : The ship's cargo officer

XBSC : For calling a coast-station by mariphone one should preferably use:

A : a working channel of the nearest shore-station of that coast-station

XBSD : Give the meaning of this symbol:

A : lifebuoy with light and smoke



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

XBSE : The letter 'X' in the answer-back 36572 LIBK X means:

A : This concerns a mobile station

XBTP : Which of the following is the correct minimum carriage requirement for a ship of more than 300 gross tons and operating in area A:

A : 1 VHF RT + DSC+ DSC watch receiver - 1 or 2 SART - 1 NAVTEX or 1 EGC receiver - 2 or 3 VHF portable - 1 EPIRB - 1 MF RT + DSC+ DSC watch receiver

XBTP : Which of the following is the correct minimum carriage requirement for a ship of more than 300 gross tons and operating in area A2:

A : 1 VHF RT + DSC+ DSC watch receiver - 1 or 2 SART - 1 NAVTEX or 1 EGC receiver - 2 or 3 VHF portable - 1 EPIRB - 1 MF RT + DSC+ DSC watch receiver

XBTW : Abnormal discharge temperature can be caused by

A : All alternatives

XCAI : Instructions for "Preparation for welding or hot work in cargo tanks" is laid down by the Norwegian Maritime Directorate. Which of the following requirements regarding welding or hot work corresponds to these instructions?

A : If the hot work is to be carried out at the bottom of the tank, the entire bottom shall be thoroughly cleaned and all sediments removed.

XCBI : How are the categories of Seed Cake specified in the International Solid Bulk Cargo Code (IMSBC Code)?

A : Specified with the UN vegetable oil content

XCBI : How many categories of Seed Cake are there in the Code of Safe Practice for Solid Bulk Cargoes (BC Code)?

A : 3

XCFI : What mode must be used on the MF/HF transmission, when transmitting a telex-message:

A : F1B/J2B

XCFF : The last part of the bunkering are the critical one, when you are topping up the tanks, the possibility of an overflow and oil pollution to the water are at risk. What is the correct procedure for topping tanks?

A : Reduce the rate of flow, and topping up one by one tank

XCGG : In a non-verbal demonstration, which action provides good communication?

A : Exaggerate your movements.

XCHD : With the VHF on board there has to be:

A : a license



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

XCNV : Define the class of emission F3E :

A : Radiotelephony - Frequency modulation

XCOP : What measures should be taken when handling mail?

A : X-ray or scan parcels before opening them.

XDAR : After the full inception of GMDSS the use of the H3E mode on 2182 kHz, is no longer allowed because:

A : DSC has fully taken over watch-keeping on 2187,5 kHz

XDBJ : Some IMDG Cargo is loaded on deck of a General Cargo vessel; what information must be available on the bridge after sailing?

A : There must be cargo plan, cargo manifest and emergency schedule information from IMDG Code

XDGC : In respect of exposure to vapours from oil cargoes, how is the value of "Short Term Exposure Limit" determined?

A : All mentioned.

XDGE : What is the inherent danger in the use of halon to extinguish an extensive fire?

A : Development of toxic gases?

XDIN : During a stay in port, what shall always be ready at the gangway?

A : Life buoy with line

XDIW : Before extinction of an electric fire we need

A : To disconnect the power source

XDJL : What stability precautions should be taken when loading heavy cargo on a conventional general cargo vessel?

A : Stow some of the cargo in the Tween deck space to raise the Centre of gravity and reduce the effective GM

XDJL : Where would you expect to find a brine trap aboard a general cargo vessel?

A : In the compartment scuppers

XDPI : You are involved in the discharging and crude oil washing a crude oil carrier. What is the maximum allowed oxygen level in a tank during crude oil washing? (IMO Reg)

A : 8 %



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

XDYT : What is Hz the abbreviation for?

A : Frequency in an Alternating Current (AC)

XEAC : On a crude oil tanker what precaution, if any, should be taken when using the slop tank as the source of oil supply for crude oil washing, to prevent the possibility of an electric charge being built up?

A : Discharge the slop tank completely first then refill it from a cargo tank from which a layer of 1 metre has already been discharged.

XECW : Give the meaning of the following symbol:

A : davit launched liferaft

XEEG : The display of the DSC-controller on board is showing the following lines: (see original) The text TX4 means:

A : this message is stored in the memory under TX4

XEFB : In which publication do we find information about the most common liquefied gases?

A : In ICS Tanker safety guide

XESU : The cooling water temperatures in and out of the engine become too high. What is the most probably reason for this?

A : The control valve for the cooling water cooler is sticking.

XETN : Among working conditions listed below which one is required for every propulsion engine of lifeboats?

A : Starting achieved within 2 min of commencing the start procedure at an ambient temperature of -15°C

XEUD : If a person is in a state of shock, what of the following is the correct thing of you to do?

A : Treat and reassure the casualty and stay with the person at all times.

XEXE : Which of the following alternatives summarise the benefits of using high voltage on ships?

A : Smaller conductors, machines and switchgear

XFBD : A small consignment of dangerous goods is to be loaded on deck of a General Cargo ship; choose from the following stowage position which is the most suitable ?

A : The aft end of No. 4 hold

XFBD : A small consignment of dangerous goods is to be loaded on deck of a General Cargo ship; choose from the following stowage position which is the most suitable ?

A : The aft end of No. 4 hold



XFGR : Fast rescue boats construction should be:

A : Rigid, inflated or rigid / inflated

XFHP : Under what circumstances may a watch-keeping engineer undertake other duties?

A : When he is properly relieved.

XFIN : Are there any differences between "Clean Ballast Tanks" (CBT) and "Segregated Ballast Tanks"(SBT)?

A : CBTs cargo tanks are also used for ballast, SBTs are not.

XFJY : It is necessary, prior to loading a refrigerated cargo on a conventional reefer vessel, to prove that the hold bilges are clear and that the bilge system is functioning correctly. Which of the cargo types given in the options would be expected to produce the most water during a voyage?

A : A cargo of fruit loaded at field temperature.

XFMY : On board cargo ships an abandon ship drill must be performed for all the crew

A : every month

XFQH : How many classes is specified in the IMDG-Code?

A : 9

XFQI : At the entrance to the space where batteries are stored on board the following notice must be fitted:

A : no entry with naked light and/or flame

XFPH : Which one of the listed requirements regarding the construction of lifeboats do not correspond to present regulations? The lifeboat shall:

A : have permanent boarding arrangements on both sides to enable persons in the water to board the lifeboat

XFQV : You will be at sea for 45 days with a crew of 30 men. How many tomatoes would you buy?

A : 35 kg

XFQV : You will be at sea for 45 days with a crew of 30 men. How much tomatoe would you buy?

A : 35 kg

XFQV : You will be at sea for 45 days with a crew of 30 men. What quantity of fresh tomatoes would you buy?

A : 35 kg



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

XFRB : On a Container vessel, when can twistlocks be used to lift containers?

A : Only if they have been approved and certified for this purpose

XFRB : When can twistlocks be used to lift containers?

A : After they have been approved and certified for this purpose

XFRU : What equipment is provided in a liferaft to help you keep warm in cold weather?

A : The floor of the raft has a second layer which can be inflated to help insulation, in addition to the thermal protective aids (10% of complement, minimum 2)

XFUD : Which is the "MOORING BUOY", in the figure ?

A : Mooring buoy is given by B on the figure

XFYK : A ship is fitted with davit launched liferafts. How often should onboard training take place, including, when practicable, the inflation and lowering of a liferaft?

A : Every four months

XGHL : What is the name of the IMO publication giving guidance in Search and Rescue operations?

A : MERSAR

XGHO : Read this text and answer why pre-sea training is recommended?

A : This will greatly enhance the possibilities for a seafarer to look after himself in an emergency situation.

XGHQ : On the air compressors crankcase there is a small valve that lets off overpressure. What do we have to do if this valve is letting off pressure and oil moisture ?

A : Overhaul the compressor unit.

XGIJ : You are duty officer on the bridge. A person is reported missing. Which of the following actions are to be considered as the correct manoeuvre in this situation?

A : Scharnow Turn

XGMW : Noxious Liquid Substances which, if discharged into the sea from tank cleaning or deballasting operations, are deemed to present a hazard to either marine resources or human health or cause harm to amenities or other legitimate uses of the sea and therefore justify a limitation on the quality and quantity of the discharge into the marine environment

A : A category "Y" substance as identified in the revised MARPOL Annex II.

XGTF : Ship Security Plans all look the same.

A : FALSE



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

XHCJ : The discharge pressure of a freon compressor gradually falls below the desired value. What action would you take to increase the pressure again

A : Reduce the sea water flow through the condenser.

XHDE : Which method is used to make a physical connection between a rescue vessel and a wreck?

A : Rocket line

XHEB : Which would be the most suitable place to obtain an oil sample for analysis?

A : From the lubricating system pipeline on the discharge side of the circulating pump.

XHEB : Which would be the most suitable place to obtain an oil sample for analysis?

A : From the system pipeline.

XHEB : Which would be the most suitable point in the system to obtain a representative of diesel engine lubricating oil for analysis?

A : From the lubricating system pipeline on the discharge side of the circulating pump.

XHEB : Which would be the most suitable point in the system to obtain a representative of diesel engine lubricating oil for analysis?

A : From the system pipeline.

XHGR : At least how often shall rescue boats (MOB) be launched with their assigned crew and manouvered in the water?

A : Every three months

XHGT : What is the acronym FR 01 ?

A : a AAIC

XHJF : What is the flash point of a Class 3.2 substance?

A : Lower than 23°C

XHJG : On the figure 4 possible definitions of the term "MOORING BUOY" are given. Which one is the correct one?

A : Mooring buoy is given by B on the figure

XHJI : On the figure 4 possible definitions of the term "BRIDGE" are given. Which one is the correct one?

A : Bridge is given by A on the figure



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

XHKU : Which of the following is considered to be the most efficient method of testing the weather tightness of hatch covers during a pre-loading survey of a General Cargo Vessel?

A : Ultra sonic test

XHOB : Which of the following statements is the most appropriate with respect to cargo after loading on a General Cargo Vessel?

A : All cargo must be fully secured before the vessel sails

XHXD : According to the IMO Gas Codes, what are the maximum time intervals for sampling and analysing samples from the permanent installed gas detection system?

A : 30 minutes.

XHXD : According to the IMO Gas Codes, what are the maximum time intervals for sampling and analysing samples from the permanent installed gas detection system on a LNG carrier?

A : 30 minutes.

XHXD : What are the maximum time intervals for sampling and analysing samples from the permanent installed gas detection system?

A : 30 minutes.

XHYK : Cargo pumps for handling liquefied gas are normally have a set of performance curves to assist the operator in understanding the pumps capabilities. What basic information can be obtained from the pumps Q-H curve?

A : Information about the pumps capacity in terms of delivery head and flow rate.

XHYK : Cargo pumps for handling liquefied gas are normally provided with a set of performance curves to assist the operator in understanding the pumps capabilities. What basic information can be obtained from the pumps Q-H curve?

A : Information about the pumps capacity in terms of delivery head and flow rate.

XHYK : Cargo pumps for handling LNG are normally provided with a set of performance curves to assist the operator in understanding the pumps capabilities. What basic information can be obtained from the pumps Q-H curve?

A : Information about the pumps capacity in terms of delivery head and flow rate.

XHYK : What basic information do we get from the pumps flow-head curve?

A : We get information about the pumps lifting height and liquid flow.

XIAQ : Which one of the listed requirements regarding hand flares do not correspond to present regulations? The hand flare shall:

A : emit smoke of a highly visible colour

XIAY : Where is the Safety Certificates for ships to be kept?

A : In the Captain's office



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

XIEB : MF/HF 2187,5 KHZ ALL SHIP DISTRESS 2275200 FIRE N 50 00 W 000 10 11:10 EOS What is false regarding the above call ?

A : This call will normally be followed by an acknowledgment call on DSC

XIHN : A cargo hold containing such cargo as nitrates, chlorates etc which produces oxygen under the influence of heat catches fire. If you have a lot of water at your disposal, how would you deal with this?

A : Use large quantities of water as soon as possible

XIHN : A cargo hold containing such cargo as nitrates, chlorates etc which produces oxygen under the influence of heat catches fire while the vessel at sea. How would you deal with this?

A : Use large quantities of water as soon as possible

XIIV : After discharge of a cargo of bananas there are a lot of cartons of condemned fruit on the deck. The vessel is not in a special area and is more than 100 miles from land. Select from the given options the best way to dispose of the condemned fruit.

A : Remove and retain all of the packaging including any inner plastic bags and dispose of the condemned fruit overboard.

XIKN : On modern chemical tankers, nitrogen is often used to achieve a super-dry atmosphere within a cargo tank prior to loading. Sometimes however, equipment delivering a special air supply is fitted and available for this same purpose. What does this equipment do?

A : It supplies de-humidified air.

XIPW : What is the number one job for the ship management team when fire break out?

A : The ship's management team must organise the fire teams and then the teams have to rescue missing personnel

XIXI : After main power is restored, a timed sequential restart of motor-driven auxiliaries is necessary to avoid:

A : Generator overload due to many motors starting at simultaneously

XIIVV : On a Container vessel, what is the function of a raised deck socket?

A : To house base twistlocks or stacking cones

XIIVV : What is the function of a raised deck socket?

A : To house base twistlocks or stacking cones

XIWI : Why may wearing sweat rags slung round your neck when working in the machinery spaces be hazardous?

A : The rags may be caught by running machinery or power tools.

XIWI : Why may wearing sweat rags slung round your neck when working in the machinery spaces be hazardous?

A : The rags may be caught by a revolving shaft.



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

XIWJ : The circuit shows a full-wave bridge rectifier. Which electronic component should be connected between a and b in order to obtain reduced ripple voltage to the load RL.

A : Capacitor

XIWJ : The circuit shows a full-wave bridge rectifier. Which electronic component will you connect between a and b in order to obtain reduced ripple voltage to the load RL.

A : Capacitor

XIYA : Which of the 3 alternatives below is giving an OR-function?

A : Figure 2.

XJAB : For what could a ro-ro vessel be held responsible by a port authority?

A : Ramp damage to the jetty

XJCC : After receiving a DSC distress alert in a HF-band you must immediately:

A : listen on the radio-telephone distress frequency in the pertinent band

XJDG : What name is given to the pickled, fermented vegetable condiment that accompanies almost every Korean dish?

A : Kimchee.

XJEW : The display of the DSC-controller on board is showing the following lines: (see original) The text TX6 means:

A : this message is the 6th message in the memory

XJGJ : Are we allowed to load ammonia on inert gas?

A : We are not allowed to load ammonia on inert gas

XJIB : Which of the following parameters does an explosimeter measure?

A : The percentage of the L.E.L. in the ambient air

XJJO : Achieving a good air flow through the various cargo compartment of a reefer vessel is a principal design aim of a Naval Architect. Which of the options given represents the optimum cargo space shape?

A : A square space as would be found in a midships lower deck.

XJJP : In conjunction with which two sets of international regulations should the IMDG Code be read for security purposes?

A : Chapter XI-2 of SOLAS and Part A of the ISPS Code.



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

XJJP : With which two sets of international regulations should the IMDG Code be read for security purposes?

A : Chapter XI-2 of SOLAS and Part A of the ISPS Code.

XJLU : Many water tube boilers feature so called screen tubes. What is the purpose of these screen tubes?

A : To protect the superheater from direct exposure to the furnace.

XJQK : The self-contained breathing apparatus can be classified according to their air circuit in:

A : Open and closed circuit apparatus

XJVL : Which code regulates the transportation of dangerous goods by sea ?

A : IMDG

XJVM : The ship is in a sharp turn and the log shows sideways motion to port both forward and aft. Where is the "pivot point" located?

A : - At a position outside the hull of the ship itself

XJVM : The ship is in a sharp turn and the log shows sideways motion to port both forward and aft. Where is the "pivot point" located?

A : Outside the ship itself

XJVO : Who issues an international load line certificate for a NIS cargo vessel of 500 gross tons and above?

A : The recognized classification society, were the vessel is classified.

XJWM : A refrigeration plant is short cycling even though there is plenty of refrigerant in the system and all of the rooms are above temperature. From the options give select the one which is the most likely cause of the problem?

A : Blocked filter drier causing the automatic low pressure cut out to operate.

XJXU : Which item among those below is included in the normal equipment of every lifeboat ?

A : two hatchets

XJYN : On a Container vessel, what are the vertical corner structures of a container called?

A : Corner posts

XJYN : What are the vertical corner structures of a container called?

A : Corner posts



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

XJYW : You are in charge of loading a crude oil cargo at a terminal which employs a Vapour Emission Control System (VECS). What should you do if the flow of gas to shore reaches the maximum declared capacity of the system?

A : Request lower loading rate?

XKIJ : After a bulk cargo is discharged what should be done with CO 2 lines in each cargo hold?

A : Each line must be blown through with compressed air to ensure that they are clear of cargo?

XKNB : What will you bring in a lifeboat if the ship is abandoned?

A : Warm clothes, blankets and lifevests.

XKOO : Which component does this graphical symbol illustrate?

A : Resistance temperature sensor

XKPN : The blower air delivery is not sufficient. What is the cause?

A : Clogged air inlet filter

XKQI : What is the Norwegian Ship Control?

A : A part of the Norwegian Maritime Directorate, on NIS ships mainly doing unscheduled inspections

XKXS : During a stay in port, what shall always be ready at the gangway?

A : Life buoy with line.

XKYT : You wish to send an e-mail using the Inmarsat-C installation. The message has to be composed in:

A : ASCII

XLBJ : What is the main theme of modern safety practice?

A : Making use of Risk Assessment as a means to improving safety

XLDS : When preparing to ballast the double-bottom tanks of a General Cargo Vessel, which of the following must be done?

A : The Chief Officers ballast plan followed exactly

XLDW : Which class of emission is used for ARQ NBDP transmissions ?

A : F1B



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

XLHU : On a RoRo vessel, what factor(s) determine whether or not a cargo unit will tip over?

A : The shape and centre of gravity and securing arrangements of the cargo unit

XLHU : What factor(s) determine whether or not a cargo unit will tip over?

A : Its shape and centre of gravity

XLIT : The rudder is hard over, full ahead in deep water. How much lift force remains when the engine is stopped?

A : About 20%

XLMD : How are cargo holds, below the freeboard decks car carriers, segregated?

A : By water-tight doors

XLMD : On a RoRo vessel why is it important to ensure the vessel is correctly trimmed prior to commencing cargo operations

A : To ensure the angle between the Ramp and the Quay are in acceptable limits

XLMI : How should dunnage be laid, prior to loading a Caterpillar Tractor?

A : Fore and aft under the tractor's wheels

XLMI : On a RoRo vessel, how should dunnage be laid, prior to loading a Caterpillar Tractor?

A : Fore and aft under the tractor's wheels

XLON : Which plan should be consulted if it is found that two separate tanks are filling when it was intended for only one to be filled?

A : Pumping plan

XL00 : In discussing the properties of oil cargoes, which of the following are examples of Aromatic Hydrocarbons?

A : Insufficient air supply

XLPG : The ship is en route. When may passengers visit the bridge?

A : Passengers are not allowed to visit the bridge while the ship is en route

XL SX : To whom do the certification requirements apply on a NIS cargo vessel?

A : To persons in certificated positions as per the manning certificate and certificated positions of additional manning, if any



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

XLYN : A new second mate does not have a British Certificate of Competency, can he be signed on the ship?

A : yes, provided that he has a Certificate of Equivalent Competency issued by MCA

XMCY : Two reference points for pressure exist, absolute zero and atmospheric pressure. What do you call pressures measured relative to atmospheric pressure?

A : Gauge pressure

XMCY : Two reference points for pressure exist, absolute zero and atmospheric pressure. What is the common name pressures measured relative to atmospheric pressure?

A : Gauge pressure

XMFD : What would you do immediately if you saw oil spilling from a bunker hose during cargo operations?

A : Stop the bunker operation

XMFD : What would you do immediately if you saw oil spilling from a bunker hose during cargo operations on a General Cargo vessel?

A : Stop the bunker operation

XMFE : Give the meaning of the following symbol

A : Radar transponder

XMHR : During execution of a standard UMS-check, the Engineer on Duty is experiencing a "low water level" alarm in a cooling water expansion tank. What will be the appropriate immediate action?

A : Correct water level is obtained by refilling the cooling system, and the entire system is checked for leakages

XMIP : How much water would you allow per person as officer in charge of the lifeboat, following an abandon ship operation?

A : Nothing for the first 24 hours, then 1/2 litre or more, if possible, per day

XMKJ : When purchasing cleaning and washing products, what should one look for?

A : Products with users instructions telling you how and where to use them.

XMKJ : When purchasing cleaning and washing products, what should you look for?

A : Products with users instructions telling you how and where to use them.

XMKL : Which of the following is a SART transponder frequency :

A : 9 GHz



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

XMLQ : Liquefied gas is, by IMO, divided into different groups. What is the criterion for this division?

A : The boiling point, chemical bindings, toxicity and flammability.

XMLQ : Which of the gas groups, identified by SIGTTO, in Liquid Gas Handling Principles on Ships and in Terminals, does LNG belong to?

A : Saturated Hydrocarbons

XMPH : Which of the following instructions or information SHALL be contained in the Training Manual?

A : use of communication equipment

XMPL : To achieve safe maritime operation, the Norwegian Maritime Directorate works in compliance with:

A : The International Maritime Organization (IMO)

XMSY : As part of a survey of a main steam boiler it is necessary to check the condition of the steam drum. What would be the preferred method for checking drum shell thickness in such a situation?

A : Use ultrasound equipment.

XMTC : With regard to raised deck sockets what must be ensured prior to commencing cargo operations?

A : They must be free of internal debris

XMVB : How should steel wire rod coils be stowed?

A : With their cores aligned fore and aft

XMVB : How should steel wire rod coils be stowed on a Bulk Carrier?

A : With their cores aligned fore and aft

XNAH : Who may serve as the person in charge of an oil transfer aboard a tanker in a US port?

A : Only licensed officers

XNBA : What is the normal carbon content in crude oil?

A : Height of liquid in the tank

XNBA : What is the normal carbon content of Crude Oil?

A : Height of liquid in the tank



XNEX : You are burning garbage containing plastics. What shall you do with the ashes from the vessels incinerator?

A : Discharge the ashes to a shore facility

XNFD : In which of the following processes will the time constant be of minor importance

A : Level control

XNFD : In which of the following processes will the time constant be of minor importance?

A : Level control

XNGC : In which situation might you have to use non-verbal communication with passengers?

A : You are outside in a severe storm.

XNGY : A British registered ship with a Polish master on board has some difficulty with the cargo whilst in a foreign port e.g. Spain, from which Consul should the master seek assistance in dealing with the situation?

A : Flag state

XNHR : You are to load a cargo of Isocyanate to tank 4CP and the cargo hose from shore is to be connected to a flange directly adjacent to the cargo pump, so that the manifold cross-over and deck cargo line are not used. What must you place underneath the connection?

A : A portable drip-tray.

XNIP : After confirmation that there is no other radio-traffic, we call on a VHF working channel of a coast-station. When you don't get any reply:

A : you must wait 3 minutes minimum before repeating your call

XNMR : Which of the following terms may be used to describe a cloth or paper towel which picks up water or spilled liquid easily and effectively?

A : Absorbent.

XNMW : How much food per person is supplied in a lifeboat?

A : Not less than 10000 kJ

XNPG : The necessary elements to create fire are

A : combustible, oxygen, heat and chain reaction

XNQU : Passenger ships have a normal requirement of 1 lifejacket per person + 10% for children. In addition to this, how many lifejackets have to be stowed in conspicuous places on deck or at the muster stations?

A : 5% extra



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

XNRP : Which one of the following requirements regarding lifebuoys corresponds to present SOLAS regulations?

A : Be constructed of inherently buoyant material.

XNSV : On a RoRo vessel, what is the Maximum Securing Load of mild steel shackles?

A : 50% of the breaking strength

XNSV : What is the Maximum Securing Load of mild steel shackles?

A : 50% of the breaking strength

XNSV : What is the Maximum Securing Load of new mild steel shackles?

A : 50% of the breaking strength

XNUJ : What is the most frequent used insulation on cargo tanks?

A : Polyurethane.

XNUJ : Which one of the given options is most commonly used as the main insulation material for cargo tanks on a liquefied gas carrier?

A : Polyurethane foam.

XNVT : If you detect a fire on board the ship, dependent on the situation, which of the following actions is the first to be taken?

A : Raise the fire alarm.

XNWW : The cargo tanks of liquefied gas carriers are usually insulated. Why is it necessary to insulate these tanks?

A : To avoid cold cargo to come in contact with the ship's hull

XNYM : Which type temperature sensors are shown on the picture?

A : Resistance sensors

XNYM : Which type temperature sensors are shown on this picture?

A : Resistance sensors

XOBU : What is the purpose of an evacuation analysis?

A : To identify and eliminate, as far as practicable, congestion which may develop during an abandonment



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

XOBX : Which of the following duties shall be included in the "muster list" as being assigned to crewmembers in relation to passengers ?

A : seeing that passengers are suitably clad and have done their lifejackets correctly

XOCQ : Give the command after ga+ for the transmission of a 'store and forward' –message with radio-telex:

A : tlx..+

XODJ : Which of these statements about profiling is correct?

A : Verify that answers to questions match up with what's already known about the person being questioned.

XOFD : If you want to call a person on shore, it is a:

A : personal call

XOJI : What kind of fuel will originate a class A fire?

A : a solid (cardboard or wood...)

XOKD : Vent fans and fan ducts located in hazardous locations, if made of ferrous materials, require a certain clearance between the impeller tips and the casing (to preclude any sparking). If you are doing an overhaul, you would ensure this clearance is at least:

A : 13.0 mm?

XOTD : The effect of reflection of radio waves in the ionosphere on the transmission range also depends on:

A : the seasons

XOVR : Which one of the listed requirements regarding the stowage of liferafts corresponds to present SOLAS regulations?

A : Liferafts shall be stowed with its painter permanently attached to the ship

XOWT : On area A1 the function "Transmission and reception of on scene communications" is mainly based on:

A : the use of VHF R/T

XOYF : What has the Bosun done to prepare the anchoring?

A : He has disengaged the windlass and put the brake on

XPDF : The maximum working pressure of a cargo hose should normally not be less than :

A : 10 bar.



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

XPKL : What gas checks must be made to the atmosphere in a general cargo ship deep tank prior to cleaning and after discharge of a cargo of vegetable oil?

A : The atmosphere must be checked for oxygen levels, flammable gas and toxic gas

XPLR : An abandon ship drill include definite actings and checkings. Which among the following ones is not mandatory

A : lowering all lifeboats

XPMH : What, by definition in the International Collision Regulations, is a "vessel restricted in her ability to manoeuvre"?

A : A vessel which from the nature of her work is restricted in her ability to manoeuvre as required by the Rules and is therefore unable to keep out of the way of another vessel.

XPNC : For how long is the health certificate valid for a seafarer in foreign trade?

A : One year.

XPNH : What is the absolutely main purpose with fighting a fire on board?

A : Rescuing of life

XPNI : A fully laden tanker is in collision with another tanker causing them to interlock. What action/judgement should be considered by both vessels?

A : Take separation of the two vessels into immediate consideration, but consider that a separation may create a larger oil spill

XPNI : A fully laden tanker is in collision with another tanker causing them to interlock. What action/judgement should be considered by both vessels?

A : - Take separation of the two vessels into immediate consideration, t consider that a separation may cause a fire and also create a large spill

XPOJ : What is the vessel that has the local command in a rescue operation called?

A : On Scene Commander

XPPV : What must be done if the Oil Discharge Monitoring Equipment (ODME) should fail during a ballast voyage?

A : All of the mentioned must be performed

XPPY : To accommodate expansion of piping on the deck of a chemical tanker the following are fitted:

A : Natural bends at intervals?

XPRJ : The aerial of an Inmarsat-A installation is gyro-stabilised to:

A : compensate the movements of the vessel



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

XPUF : At what interval does the IMO adopt an amendment to the IMDG Code?

A : Every two years

XPUF : On a Container vessel, when did the latest amendment to the IMDG Code start to take effect?

A : 1 January 2009

XPUF : When did the latest amendment to the IMDG Code take effect?

A : 1 January 2009

XPUU : Which item among those below is included in the normal equipment of every liferaft ?

A : one set of fishing tackle

XPXH : Which one of the following items has to be included in an abandon ship drill according to SOLAS regulations?

A : Checking that life-jackets are correctly donned.

XPYA : How many lifebuoys can you expect to find on board a passenger ship of 190 metres in length (including those of the quick-release system) ?

A : at least 24 distributed on both sides of the ship

XQCA : During the survey of Long Range Identification and Tracking (LRIT) equipment, which document must be available to the surveyor to demonstrate compliance with SOLAS?

A : - The Certificate of Compliance with SOLAS V/19-1, bearing the serial number of the equipment installation.

XQCL : What kind of fixed extinguishing plant is installed to smother a fire in an oil tanker's pump room?

A : CO2 plant.

XQCL : What kind of fixed extinguishing plant is installed to use on an oil tanker's engine room and pump room?

A : CO2 plant.

XQJH : Whilst in the engine room you hear the CO2 release alarm, what action, if any, should you take?

A : Leave the engine room as quickly as possible, closing all doors behind you

XQJW : Unconscious casualties who are breathing and whose hearts are beating should be placed in the Recovery Position. What is the Recovery Position?

A : The patient placed in a "face -to-the-floor" position, and with arms and legs arranged in order to stabilize this position.



XQKQ : What is the first sign and symptom of a Cardiac Infarction?

A : Sudden crushing, vice-like pain in the centre of the chest.

XQKW : What is the purpose of a Medico Message?

A : Call an hospital for professional medical assistance by radio when needed.

XQMM : Which muscle is the most persevering one in the body?

A : The heart.

XQNF : What is the approximately efficiency of the ejector?

A : Fixed CO2 fire-extinguisher system

XQNI : Which of the following fittings shall be provided to all lifeboats:

A : handholds on the underside of the hull

XQPB : Which of the following disposal would be permitted?

A : Food waste from a vessel outside a special area and 12 miles from the nearest land

XQPB : Which of the following disposal would be permitted?

A : Food waste from a vessel outside a special area and 12 miles from the nearest land

XQPI : On a Container vessel, what must be done when container lashing equipment fails at sea?

A : Enter the number and type of failed equipment into the lashing equipment file on board

XQPI : What must be done when container lashing equipment fails at sea?

A : Enter the number and type of failed equipment into the lashing equipment file on board

XQQM : Which item among those below is included in the normal equipment of every liferaft ?

A : one whistle or equivalent

XQSO : When starting three phase induction motors which of the following starting methods will immediately apply rated voltage to the machine?

A : Direct on Line



XQSO : Which of the following starting methods will not reduce inrush (starting) current?

A : Direct on Line

XRAV : What do you understand with a computers POST system?

A : A series of tests run by the computer at power on

XRBP : Regular (at least weekly) testing of the emergency generator must be performed to check:

A : Its readiness to perform as specified.

XRBP : Regular (at least weekly) testing of the emergency generator must be performed to check:

A : Its readiness to perform as specified

XRGG : This is a parallel L-C circuit with a curve showing frequency- impedance characteristics. Which of the formulae A to D gives the resonant frequency f_o ?

A : $f_o = 1 / (2 \text{ sqrt } (L/C))$

XRGG : This is a parallel L-C circuit with a curve showing frequency- impedance characteristics. Which of the formulae A to D will you utilize for determining the resonant frequency f ?

A : $f_o = 1 / (2 \text{ sqrt } (L/C))$

XRGG : This is a parallel L-C circuit with curve showing frequency- impedance characteristics. Which of the formulas A to D will you utilize for determining the resonant frequency f ?

A : $f_o = 1 / (2 \text{ sqrt } (L/C))$

XRGN : The successive stages of all cargo and ballast handling operations on an oil tanker must be recorded on board. What is the name of the book where these details are listed?

A : Oil Record Book.

XRKU : On area A1 the function " Transmission of ship to shore distress alerts" is mainly based on:

A : the use of VHF DSC

XROP : One of the Main Engine cooling pumps is down for maintenance. The rest of the cooling pumps are operating near full capacity with minimum margins on the maximum temperature limit. What should be the correct action to take with regard to UMS operation?

A : Operate the engine room on manual mode until the cooling pump is in operation, switched in stand-by mode.

XROP : One of the Main Engine cooling pumps is down for maintenance. The rest of the cooling pumps are operating on full capacity with minimum margins on the maximum temperature limit. What will be the correct precaution or action to take at the end of the day?

A : Operate the engine room on manual mode until the cooling pump is in operation, switched in stand-by mode.



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

XRRF : The printer of a DSC-controller gives the message:(see original) This DSC message was received via:

A : the DSC-watch receiver

XRRH : What mode is used for broadcast an MF/HF-DSC message:

A : J2B / F1B

XRVK : In a heat exchanger where seawater is used to cool fresh water, the seawater pressure should be maintained lower than the freshwater pressure to:

A : Prevent contamination if leaks are developed

XRWC : In which cases shall side scuttles in passenger ships be so constructed that they cannot be opened without the consent of the master of the ship?

A : Where the sills of the side scuttles are below the margin line

XSBN : What is the advantage of a large ship?

A : They are economical to operate

XSCY : Which one of the listed requirements regarding the launching and recovery arrangements for rescue boats do not correspond to present regulations?
(S O L A S
I I I / 1 6)

A : The release mechanism shall be of an automatic type approved by the Administr

XSES : What is typical for a continuous control system

A : It is possible to predict the control mathematicallyIt is possible to predict the control mathematically

XSES : What is typical for a continuous control system?

A : It is possible to predict the control mathematicallyIt is possible to predict the control mathematically

XSGK : The wave length is:

A : inversely proportional to the frequency

XSHA : During inspection of the fan spaces an access hatch between the delivery and return side of the fan space is inadvertently left open. What would be the most likely consequence of this situaqtion?

A : Air would short circuit from the delivery to the return air side.

XSHA : During inspection of the fan spaces an access hatch between the delivery and return side of the fan space is inadvertently left open. What would be the most likely consequence of this situation?

A : Air would short circuit from the delivery to the return air side.



XSIX : HF communication is usually provided by :

A : sky wave

XSMA : Which of the cargoes given in the options would you expect to be most suited for loading onto a conventional reefer vessel designed with side loading doors?

A : Break bulk bananas.

XS00 : What special requirements applies to fire alarm signalling systems in passenger ships

A : Fail safe, Centralized in a continuously manned control station, Remote control of fire doors, Indication of open or closed fire doors, Reactivation of ventilation, Detector status, Back up po

XSOW : What is the best operating conditions for the separator?

A : Constant flow, clean probes and temperature below 60 Degr.C.

XSPO : Under what circumstances can ships crew raise an official complaint

A : When the provisions and /or water is unfit for consumption

XSPR : The normal mode of operation for each coast station shall be indicated in:

A : The ITU List of Coast Stations

XSRF : Who would carry out a radio survey on an UK ship?

A : Authorised radio surveyors employed by Marconi

XSTM : On a Container vessel, what is the purpose of a Bridge Fitting?

A : To link the top containers of adjacent stacks

XSTM : What is the purpose of a Bridge Fitting?

A : To link the top containers of adjacent stacks

XSVL : You are taking fuel on your vessel in the US when you notice oil on the water around your vessel. You are to stop taking fuel and:

A : Notify the US Coast Guard

XSWC : What is the definitive document which confirms whether a chemical tanker is authorised to carry a particular Noxious Liquid Substance?

A : Her Certificate of Fitness.



XSXB : How much food per person is supplied on a liferaft?

A : Not less than 10000 kJ

XTBI : A bulk vessel loads a full cargo to summer marks of a high density bulk cargo such as iron ore concentrate; what would be the possible stability conditions produced?

A : The vessel will normally have a large intact metacentric height (GM) and have a fast roll period

XTEQ : An area A2 is:

A : an area excluding sea area A1 within the radiotelephone coverage of at least one MF coast station in which continuous DSC alerting is available

XTGI : If the water and oil have emulsified, is it possible to remove the water in the separator

A : No

XTHE : What will apply when loading Ammonium Nitrate Solution 93 % or less ?

A : The acidity (ph) of the cargo should be between 5 and 7 when diluted with 10 parts of water to one part of cargo.

XTLK : Why is the maximum pressure in a Plate Heat Exchanger usually limited to about 10 bar?

A : Difficult to seal plates above this pressure.

XTMX : What is the meaning of this symbol ?

A : Start water-spray

XTNT : What alternative is there to direct (heating coils or heat exchanger) or ducted heating on a parcel chemical tanker?

A : Stowage such that heat transfer may be delivered from a cargo of higher temperature in an adjacent tank.

XTTR : The hydrostatic release unit used in the float-free arrangements will automatically release the liferaft at a depth of not more than:

A : 4 m

XTUM : In which way may intake of poisonous material occur?

A : All mentioned.

XTVH : What are the duties of the engineer officer in charge of the watch?

A : To keep constant surveillance of machinery and auxiliary systems.



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

XTVH : What are the duties of the engineer officer in charge of the watch?

A : The primary duty of a watch-keeping engineer is to maintain constant surveillance of the main engine and auxiliary machinery

XTYL : On a RoRo vessel, what danger is associated with loaded container tractors passing over large fittings on the loading ramp or on the vessels decks?

A : The container jumping the trailer

XTYL : What danger is associated with loaded container tractors passing over large fittings on the loading ramp or on the vessel's decks?

A : The container jumping the trailer

XUFH : On which cargoes should all operations be entered in the Annex II Cargo Record Book.

A : Only cargoes included in one of the categories, A, B, C or D.

XUNS : What information should be passed to a relieving cargo watch-keeper?

A : All

XUNS : Which of the following is not relevant when handing over a cargo watch?

A : Prevailing weather conditions

XUOI : Class "C" bulkheads are bulkheads constructed of approved non-combustible materials:

A : that need not meet any of the requirements relative to smoke and flame nor limitations relative to temperature rise

XUON : When the fire alarm signal is sounded every member of the ships crew shall immediately proceed to their assigned fire station. Which one of the following signals is used as fire alarm signal on board cargo ships?

A : Intermittent signals on the ship's alarm bells

XUOR : Instructions for "Preparation for welding or hot work in cargo tanks" is laid down by the Norwegian Maritime Directorate. Which of the following requirements regarding welding or hot work corresponds to these instructions?

A : If it is decided that work shall be carried out, the decision and the reason for it shall be entered in the ship's log book.

XUUH : The engines have failed and will require at least 24 hours to be available as a reliable means of propulsion. Your vessel is about 20 miles off the coast in a tidal area. What are the initial steps that should be taken to ensure the safety of the ship?

A : Display NUC lights and investigate the tidal flow over the next 24 hours and the probable drift of the vessel.

XUUS : Which of the following cargo types is a general cargo vessel best suited ?

A : Pallets tinned foodstuffs and drums chemicals



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

XUWB : A SART must, when the vessel sinks:

A : be taken by the crew to the rescue-boat and turned on manually

XUXV : One has to check the SART-unit:

A : on the date of replacing the battery

XUYL : What are the duties of a master if a seafarer gets ill at sea?

A : All the other mentioned alternatives according to the situation

XVAJ : What is low lightning system?

A : A system that's displaying the way to the nearest exit from all locations onboard, by using fluorescent signs at floor level, or light system powered by battery.

XVBW : A chemical tanker will carry cargoes of isophorone, ethylenediamine, and creosote. Which of the following is TRUE?

A : All of these cargoes are incompatible.

XVIM : Abdominal Thrust is the name on a technique which involves applying a series of thrusts to the upper abdomen in an attempt to force air out of a choking casualty's lungs. How to perform this technique?

A : Stand behind the casualty. Clench your fist with the thumb inwards in the center of upper abdomen. Grasp your fist with your other hand and pull quickly inwards.

XVJN : When will we notice the effect of shallow water?

A : When Under Keel Clearance is 50% or less

XVMA : Your ship's initial speed is half ahead and your engine is put full astern. How will the stopping distance be compared to full speed?

A : It will be much shorter

XVMY : A distress-call received via RCC should:

A : only be given receipt, if the master has confirmed that assistance indeed can be given

XVOH : Which of the following types of cover should be fitted to the lower deck bilge wells of a conventional reefer vessel?

A : A steel watertight cover with an insulated plug.

XVPE : The Inmarsat Maritime Communications Manual contains tables of:

A : telephone country codes



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

XVTJ : If any, which of the below provisions have been amended as a consequence of the amendments to STCW 95 concerning hours of rest?

A : The hours of work Act and the NIS Act.

XVXP : How many annexes do we find in MARPOL 73/78 and what is the content of annex 1?

A : We find 5 annexes in MARPOL 73/78 and annex 1 is the regulations for the prevention of pollution by oil

XWEN : What is the search pattern system called where 1 ship and 1 plane are involved ?

A : Coordinated Crab

XWEO : How often shall each member of the crew participate in an "abandon ship"-drill?

A : Once every month

XWLW : How to prevent liquid from getting into the cargo compressor?

A : By using a liquid receiver on the vapour line between the cargo tank and the cargo compressor.

XWMR : When navigating using the GPS, how does the GPS display indicate when the accuracy of the displayed position is reduced?

A : Visual and radar observations

XWNM : To maintain a high overall hygienic standard, what do you consider important to do?

A : Daily cleaning in cabins, messrooms, galley, etc.

XWOM : An oil tankers tank-cleaning machine with a rotational speed of 1 rpm and a selected pitch angle of 1.5 degrees is used to perform a bottom wash with a vertical angle from 40 degrees to 0 degrees for 1.5 cycles (3 passes). If the throughput of the machine at design pressure is 90 m³/hr, what will be the washing time and quantity of crude oil required?

A : 40 minutes and 60 cubic metres of oil.

XWSI : How come that rules and regulations change over time?

A : Over time we got more experience with products and systems that give us reason to change rules and regulations

XWWU : What is the main reason for adding inhibitors to some liquefied gas cargoes such as ethylene oxide and vinyl chloride?

A : Inhibitor is used to prevent polymerisation of the cargo

XXBP : Tank top in engine room has a high quantity of oil residues floating around. When discovered, what action should be taken?

A : Notify Ch.Eng., find cause of leakage, remedy the leakage and then immediately start cleaning of the tank top.



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

XXBT : What is one of the main features of the cylinder lubricating oil used in large 2 stroke marine diesel engines which normally operate on heavy fuel oil?

A : alkaline.

XXBT : What is one of the main features of the cylinder lubricating oil used in large 2 stroke marine diesel engines which normally operate on heavy fuel oil?

A : It is strongly alkaline.

XXCN : An alarm signal consisting of seven short blast followed by one prolonged blast is sounded by the ships whistle and alarm bells. What are you to do?

A : Go to your lifeboat station

XXCO : In a ship that is not fitted with a main fire control room, where is the control panel of a fixed fire detection system located?

A : On the navigation bridge

XXLT : When operating a steam boiler burner unit what is the best method for evaluating that the correct amount of excess air is being supplied to the furnace?

A : The reading from the flue gas oxygen analyser

XXSX : While on watch an engine room rating notices a leak from the gland of the seawater pump which is running at the time. What action should be taken?

A : Inform the engineer officer of the watch so that the pumps can be changed over and the gland can be repacked.

XXWA : When considering the successful delivery of a perishable cargo, select, from the options given, the thing over which the carrier has least control.

A : Commodity condition.

XXYA : Commonly used on an oil tanker, what is another name for a "Combustible Gas Indicator"?

A : Explosimeter

XXYA : Commonly used on an oil tanker, what is another name for a "Combustible Gas Indicator"?

A : Explosimeter

XXYE : On an OBO or O/O carrier one frequently finds electrical sockets and switches on deck for use of lighting and other electrical apparatus when operating in the dry cargo mode. Before loading oil these should be:

A : Electrically isolated by special isolating switchboxes in the accommodation and the keys of these retained by a responsible officer?

XYBO : A ship experiences an interaction effect known as "Squat" when moving in shallow water. The amount of Squat is affected by the speed of the vessel through the water. If the speed through the water is HALVED what will be the change in the affect of "Squat"

A : - The squat effect will be reduced to a quarter of its original value



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

XYEK : The demister unit is located close to the inert gas scrubber. What is the purpose of the demister?

A : To remove water from the IGS stream.

XYFU : Give the meaning of the following symbol:

A : davit launched liferaft

XYFY : Editing and publication of the book "Excerpts from The Norwegian Passenger and Cargo Ship Legislation, etc." is done by:

A : The Norwegian Maritime Directorate

XYFY : Editing and publication of the book "Excerpts from the Norwegian Ship Control Legislation" is done by:

A : The Norwegian Maritime Directorate

XYGW : All closing arrangements, stowing of cargo etc. are subject to regulations by the Norwegian Maritime Directorate (NMD). Which of the following requirements regarding hatches, hatch covers etc. corresponds to present regulations? (NSCL 4/9.1 - 9.2).

A : Manoeuvring levers/wheels for mechanically operated ports shall be properly secured when not in use.

XYLR : What name is given to the practise of maintaining a good standard of personal cleanliness and avoiding contact with sources of contamination?

A : Personal hygiene.

XYLR : When a crew member maintains a good standard of individual cleanliness and avoids contact with sources of contamination, which of the following is he said to attending to?

A : Personal hygiene.

XYLR : When a crew member maintains a good standard of individual cleanliness and avoids contact with sources of contamination, which of the following is he said to be attending to?

A : Personal hygiene.

XYLR : When a crew member maintains a good standard of individual cleanliness and avoids contact with sources of contamination, which of the following is he said to observing?

A : Personal hygiene.

XYPU : You are in charge of discharging and crude oil washing a crude oil carrier. What is the maximum allowed oxygen level in a tank during crude oil washing? (IMO Reg)

A : 8 %

XYPY : Which component does this graphical symbol illustrate?

A : Remote level controller with indicator



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

XYQS : A ships 3 - phase a.c. system has 440 V and 220 V sections. The effect of a single earth fault on a 220 V line will cause the following earth lamp indication:

A : In 440 V section: Two lamps bright. In 220 V section: Two lamps bright.

XYQS : A ships 3 - phase a.c. system has 440 V and 220 V sections. The effect of a single short circuit fault to earth on a 220 V line will cause which of the following earth lamp indications:

A : In 440 V section: Two lamps bright. In 220 V section: Two lamps bright.

XYXF : Which of the following is not systematically transmitted in a DSC distress call

A : name of the ship in distress

XYXG : Most medium and high speed diesel engines operate with mean piston speeds greater than those for larger slow speed engines. What is the main design feature of these engines which allows the higher mean piston speeds to be achieved without causing unwanted failures?

A : Using composite pistons featuring steel crowns and alloy skirts

YADO : How is an wrong entry in the Official Log book corrected

A : The entry is left as it is. An additional entry is made referring back to the erroneous entry and noting what the correct entry should read

YADQ : What is the anticipated rolling period of a ship with a large initial Transverse Metacentric Height (GM) and would there be any associated dangers to consider?

A : Short sharp period of roll associated with breaking lashings and shifting cargo

YAHQ : What types of Merchant Shipping Notices are published by the MCA

A : Merchant Shipping Notices (MSNs), Marine Guidance Notes (MGNs) and Marine Information Notes (MINs)

YAJD : On the figure 4 possible definitions of the term "UNDER KEEL CLEARANCE" are given. Which one is the correct one?

A : Under keel clearance is given by C on the figure

YAKE : In a US port and according to the Code of Federal Regulations, a Declaration of Inspection must be completed before a transfer of oil cargo can take place. Who is responsible for preparing this Declaration?

A : The ship's officer in charge of the oil transfer

YAKE : In a US port and according to the Code of Federal Regulations, a Declaration of Inspection must be completed before the transfer of an oil cargo can take place. Who is responsible for preparing this Declaration?

A : The ship's officer in charge of the oil transfer

YALN : According to the IMO Gas Codes, what is the required number of temperature indicating devices in cargo tanks?

A : At least two devices in each tank.



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

YALN : According to the IMO Gas Codes, what is the required number of temperature indicating devices in the cargo tanks of an LNG carrier?

A : At least two devices in each tank.

YALN : What is the required number of temperature indicating devices in cargo tanks?

A : At least two devices in each tank.

YAPA : When tuning a cascade control system, where do you start

A : The slave controller with the master controller in manual mode

YAPA : When tuning a cascade control system, where do you start?

A : The slave controller with the master controller in manual mode

YAPA : When tuning a cascade control system, which of the following actions should be done first?

A : The slave controller with the master controller in manual mode

YAPE : Which item among those below is included in the normal equipment of every liferaft ?

A : two sponges

YARM : Multipurpose dry chemical powder

A : will conduct electricity with very high voltage

YATK : With a distress alert via an Inmarsat-A terminal it is recommended to use the telex-mode because:

A : all vessels in the Ocean Region concerned can read it

YAVX : What will you do if you are helmsman and the OOW (officer on watch) gives you the order: "Port 20" and after a while the order: "Ease to 10"?

A : Turn the rudder towards midship, but normally not all the way to midship position

YAVX : What will you do if you are helmsman and the OOW (officer on watch) gives you the order:"Port 20" and after a while the order: "Ease your helm"

A : Turn the rudder towards midship, but normally not all the way to midship position

YAVX : What will you do if you are helmsman and the OOW (officer on watch) gives you the order:"Port 20" and after a while the order: "Easy to 10"

A : Turn the rudder towards midship, but normally not all the way to midship position



YAWR : What was the cadet to be aware of when using the needle gun?

A : He should be aware of the steel thickness of the valve

YAXJ : On a RoRo vessel, which is the correct method of securing a lashing belt to a vehicle?

A : By means of a hook facing the deck

YAXJ : Which is the correct method of securing a lashing belt to a vehicle?

A : By means of a hook facing the deck

YBEA : In daytime, as a result of sunlight, the number of layers of ionisation will:

A : increase

YBFP : What is likely to happen if a randomly hose is used for gas measurement?

A : The hose will most likely absorb hydrocarbon gases.

YBFP : Which of the methods given in the options is most commonly used to measure liquid level of the cargo in the cargo tanks of an LNG carrier?

A : A closed device such as a float or ultrasonic device.

YBGW : Which of the following pump types is not considered to be self priming?

A : Centrifugal pump.

YBGW : Which of the following pump types will normally require a separate means of priming?

A : Centrifugal pump.

YBHQ : Who is the leader of the lifeboat drill (abandon ship drill)?

A : The appointed lifeboat commander.

YBHU : What do you call the method used for bone-soft part injuries?

A : ICE-method.

YBJC : How would you describe the position of the vessel in the picture?

A : They are to let go of the stern lines



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

YBJN : A bulk carrier is loading to summer loadline marks ; to which part of the loadline marks does the vessel load in salt water (R.D.1025)?

A : The top of the summer mark

YBJN : A bulk carrier is loading to summer loadline marks; to which part of the loadline marks does the vessel load in salt water (R.D.1025)?

A : The top of the summer mark

YBKF : All new gas carriers, including LNG carriers, must meet the International Maritime Organisations requirements for the construction and equipment of liquefied gas ships. Where would information about these requirements be found?

A : The International Gas Code (IGC Code)

YBKF : What is the name of UN maritime division?

A : The UN maritime division is IMO (International Maritime Organisations)

YBRQ : The MF-band is in the frequency range:

A : 300 - 3000 kHz

YBTF : What pressure shall a cargo hose be marked with?

A : Maximum allowable working pressure

YBVU : A vessel which normally operates with the engine room in UMS mode is unable to do so because of defects to some of the critical alarm functions. What are the main considerations that the Chief Engineer must take into account when planning alternative arrangements to cover the engine room requirements until the defects are cleared?

A : A work rota is established to ensure full coverage of engine room watchkeeping duties and adequate rest periods for the engineering staff.

YCAS : Where should the placard you are shown be located, according to U.S. Coast Guard regulations ? (Title 33-Navigation and Navigable waters, § 155.440)

A : Both in a conspicuous place in each machinery space and in a conspicuous place at the bilge and ballast pump control station

YCDB : Consider the situation sketched below. What can happen if the tugmaster is not careful?

A : The tug may be sucked into your stern with danger of striking the propeller

YCDF : For how long time should a SART transponder be able to operate in the stand by mode ?

A : 96 hours

YCEY : At what time should the duty engineer perform his evening UMS rounds?

A : At any time, provided he is confident that the engine room will operate in a safe and efficient manner for the period it will be left unattended.



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

YCFI : When loading a static accumulator oil, which of the following is a standard precaution applied to eliminate the risk of explosion through electrostatic charge in the tank?

A : No metallic devices, such as those used for gauging and sampling, should be introduced into the tank during loading and for 30 minutes after completion of loading

YCIJ : What kind of cleaning product would you use to remove spilled oil and fat in the galley and pantry?

A : Neutral to Alkaline solution.

YCKT : Define the class of emission G3E :

A : Radiotelephony - Phase modulation

YCLM : What are the masters duties if punishable acts are committed on board?

A : If at sea, the master shall immediately undertake an investigation, secure evidence and take statements, inform Norwegian Consulate/Maritime Directorate

YCLR : The PTT-switch must
b e :

A : pressed in constantly to work duplex

YCOD : The power requirements for the excitation winding/circuit for a 3-phase alternator operating at rated output power are supplied by:

A : The alternators output itself via the automatic voltage regulator and the prime mover

YCRJ : The comburent is

A : the oxidising agent in the presence of which fuel may burn. The oxygen is a comburent par excellence

YCRN : What personal protective equipment would be required for working over side

A : It would be determined by risk assessment, but at very least would comprise safety line and harness, lifebuoy standing by, safety hat, boiler suit safety boots

YCSE : When cross-flooding arrangements to correct unsymmetrical flooding and excessive heel angles in damaged condition are installed in passenger

A : 15 degrees

YCSE : When cross-flooding arrangements to correct unsymmetrical flooding and excessive heel angles in damaged condition are installed in passenger ships, what is the maximum angle of heel after flooding but before equalization?

A : 15 degrees

YCTT : During a pre-loading survey prior to loading grain on a Bulk Carrier, very small amount of the previous grain cargo is found in a cargo hold; what is the significance of this situation?

A : The vessel may fail the pre-load survey and be declared off-hire



YCXW : Where is the "FORECASTLE", in the figure?

A : The Forecastle is B, in the figure

YDAV : What is the chapter of the SOLAS that regulates all themes related with such matters as fire protection, fire detection and fire extinction?

A : Chapter II-2

YDCF : What should you observe when patrolling public areas on board?

A : All abnormalities that may affect the safety/ security of passengers, crew and the ship

YDNA : On a Container vessel, why should a vessel not carry left and right-handed twistlocks?

A : Because there will be confusion as to whether or not containers are locked

YDNA : Why should a vessel not carry left and right-handed twistlocks?

A : Because it is difficult to ascertain as to whether or not containers are locked

YDNC : Conventional reefer vessels often carry non-refrigerated cargo on the voyage to the loading port, for example from Northern Europe to Central America. Which one of the options given is the most suitable type of non-refrigerated cargo to carry in such a situation?

A : Unpackaged motor vehicles.

YDOB : Hot work is to be carried out close to a smoke detector in the engine room. What precautions should be taken?

A : Notify Deck Officer and Engineer Officer in charge. The loop for the smoke detector should be isolated while work is done and normal precautions for hot work taken including permit to work.

YDOB : If you have to carry out hot work close to a smoke detector in the engine room, what precautions should be taken?

A : Notify Master, Deck officer and engineer in charge. The loop for the smoke detector to be switched off and take normal precautions for hot work.

YDOF : Most perishable cargoes are presented for shipment pre-cooled to the correct carriage temperature. If the cargo is not pre-cooled or has warmed up due to the cold chain being broken it can result in increased metabolic rates. Which of the given options would be the most difficult to deal with if such a situation occurred during a sea passage?

A : The heat produced by the cargo.

YDTC : What is the normal slow down/shutdown temperature for the jacket cooling water outlet from a diesel engine cylinder?

A : 95° C

YDTS : What is associated with carrying logs?

A : Oxygen depletion in the cargo holds



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

YDTS : What is associated with carrying logs on General Cargo vessels?

A : Oxygen depletion in the cargo holds

YDUN : A faint is a brief loss of consciousness of no more than momentary duration caused by a temporary reduction in the flow of blood to the brain. How to prevent anyone from fainting?

A : Tell the person to sit down and lean forward with the head between the knees taking deep breaths.

YDVL : Which of the following requirements regarding embarking, disembarking and stowage of vehicle on ferries corresponds to present regulations? (NSCL 4/11.4).

A : During crossing, ports on the car deck shall be closed and battened.

YDWL : The duty engineer of a UMS ship is approached by a member of the ships staff, seeking permission to hang wet working clothes in the engine room to dry. He should:

A : Not allow the clothes to be hung anywhere in the unmanned machinery spaces

YDWL : The duty engineer of a UMS ship is approached by a member of the ships staff, seeking permission to hang wet working clothes in the engine room to dry. Should he:

A : Not allow the clothes to be hung anywhere in the unmanned machinery spaces

YEDY : What does MARPOL 73/78 require in respect of the contents of lines and pumps on an oil tanker at the completion of discharge?

A : To comply with MARPOL requirements

YEIA : What class of fire involves gas?

A : Class C fire

YERC : On a General Cargo ship all wire strops used for cargo work must be marked with what?

A : The SWL and certificate number

YESY : What do we have to do if the lube oil becomes yellow/white (mixed with water) ?

A : Change the lube oil.

YEVF : In the Beaufort Scale of Wind Force, what is the Beaufort number associated with the wind force known as a "Gale"? This should not be confused with a "Near Gale" or "Strong Gale"

A : Eight (8)

YEYS : Is piracy an increasing or decreasing problem?

A : Piracy is increasing



YFBB : What is evaporation?.

A : A liquid change to gas.

YFBK : What is the inherent danger in using halon to extinguish an extensive fire?

A : Development of toxic gases?

YFFD : What is a subdivision loadline?

A : A waterline used in determining the subdivision of a ship

YFFD : What special design feature is attributed to pure car carriers?

A : A very large windage area

YFFD : What special design feature is attributed to RoRo vessels which are only car carriers?

A : A very large windage area

YFKM : If the reeferplant obtain air in the system , where do You want to vent the air out?

A : From the condenser.

YFKP : Which of the connections you are shown, are the dedicated shore connection (MARPOL-connection) for discharging of sewage ?

A : 4

YFPM : What is the meaning of the abbreviation PCB

A : Printed Circuit Board

YFPM : What is the meaning of the abbreviation PCB?

A : Printed Circuit Board

YFQI : Which of the following services is not provided by INMARSAT C:

A : Telephone

YFQW : On a Container vessel, what action should be taken when water is seen dripping out of a container being loaded, containing scrap metal?

A : Reject the container



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

YFQW : What action should be taken when water is seen dripping out of a container being loaded, containing scrap metal?

A : Reject the container

YFQW : What action should be taken when water is seen dripping out of a container being loaded with scrap metal?

A : Reject the container

YFQW : Why should containers containing scrap metal be stowed under deck or in high on-deck stowage positions?

A : To avoid contact with seawater

YFXR : What are the main elements in a damage control plan?

A : Boundaries of the watertight compartments for decks and holds. Position of controls for opening and closing of watertight compartments. Arrangement for correction of list due to flooding.

YFXS : In general cleaning it is recommended and suitable to use cleaning products which are:

A : Neutral.

YFYM : Soot blowers should be used in proper sequence so that

A : Soot would be swept toward the uptakes

YGBV : Many large slow speed diesel engines operating on heavy fuel oil have a fuel injection system which features Variable Injection Timing. How does this affect engine operation?

A : VIT increases engine efficiency by automatically maintaining the maximum cylinder

YGFJ : Which one of the following items has to be included in an abandon ship drill according to SOLAS regulations?

A : Checking that life-jackets are correctly donned.

YGGF : What is the difference between filtration and separation

A : Water can be removed in the separator but not in the filter

YGGT : On a conventional reefer vessel fitted with wooden hatch boards (gratings) which of the operations given in the options is the most likely to cause the greatest damage to the hatch gratings?

A : Loading or discharging palletised fruit using pallet jacks.

YGVJ : A person wearing an anti-exposure suit shall be able to:

A : swim through the water at least 25m and board a survival craft



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

YGMX : On board they want to send a safety-call to other vessels. The DSC safety-call:

A : Has to contain a work-frequency

YGNT : Give the meaning of the following symbol:

A : lifejacket

YGOW : Which of the following factors contributes to oxygen depletion inside a cargo hold full of logs on a General Cargo Vessel?

A : Restricting hold ventilation

YGOW : Which of these factors does not contribute to oxygen depletion inside a cargo hold full of logs?

A : Humidity within the hold

YGTM : The "dew point" of a liquid chemical is often quoted in the documentation relating to its loading and carriage. Which of the following is a definition of "dew point"?

A : The temperature at which a gas is saturated with respect to a condensable component, as in operational terms is seen at the point when air is saturated with moisture.

YGTM : Which of the following is a definition of "dew point"?

A : The temperature at which a gas is saturated with respect to a condensable component, as in operational terms is seen at the point when air is saturated with moisture.

YGVH : Does liquid turbulence improve the efficiency of a Plate Heat Exchanger?

A : Yes.

YGLV : How does a bulk cement carrier discharge its cargo?

A : Using its own pumping system and equipment

YGLV : How does a cement carrier discharge its cargo?

A : Using its own pumping system and equipment

YHAK : What is the pumping capacity depending on?

A : Total pressure head

YHBC : What is a "Rescue Unit" (RU)?

A : A unit composed of trained personnel suitable equipped for expeditious search and rescue operations.



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

YHBH : On a Container vessel, what is the greatest danger associated with chemicals emitting hydrogen inside a closed container, due to contact with water?

A : A violent explosion

YHBH : What is the greatest danger associated with chemicals emitting hydrogen inside a closed container, due to contact with water?

A : A violent explosion

YHBH : What is the greatest danger associated with the carriage of chemicals?

A : Outbreak of fire

YHDN : What colour flare is used to signal a safe landing place for small boats ?

A : Green

YHFJ : Which of the following features is required for an anti-exposure suit ?

A : can be unpacked and donned without assistance within 2min.

YHJL : On a RoRo vessel, why should vehicles stowed on ramps face downwards?

A : To prevent fuel draining from the engine and spilling on the decks

YHJL : Why should vehicles stowed on ramps face downwards?

A : To prevent fuel draining from the engine

YHJP : An immersion suit is constructed such that it can be unpacked and donned within:

A : 2 min

YHQE : Your vessel is a tanker in ballast and the two vessels are interlocked after collision. You have already made clear that all people are well taken care of and you will try to separate the two vessels. What should be your greatest concern?

A : That the separation may cause sparks that can possibly ignite the oil or any other flammable substances.

YHQE : Your vessel is a tanker in ballast and the two vessels are interlocked after collision. You have already made clear that all people are well taken care off and you will try to separate the two vessels. What should be your greatest concern?

A : That the separation may cause sparks that can possibly ignite the oil or any other flammable substances.

YHQN : Many LNG vessels have spherical cargo tanks. Which of the statements given in the options is the most accurate?

A : Using spherical tanks means only a partial secondary barrier is required.



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

YHRT : During maintenance work at sea an engine rating is moving a heavy component to the workshop using a chain block attached to an overhead trolley on a rail. Part way through the operation the rating is asked by the engineer to go immediately to the store for some equipment. What should the rating do?

A : Continue with the moving operation until the component is properly secured in the workshop before going to the store for the equipment.

YHRV : A second high pressure boiler is to be coupled to an online boiler supplying steam to the main turbine. How is the superheater section of the second boiler normally prevented from overheating during the period prior to coupling while raising the steam pressure?

A : The superheater vent valve is kept open until the boilers are coupled to create a steam flow.

YHYH : What is the most suitable type of packing for a shaft gland of a pump used for seawater duties?

A : Greasy cotton packing.

YIEH : A radio-wave travels in the air at a speed of:

A : 300.000 kilometres per second

YIEM : What extent of hatch cover spares should be available on board a Bulk Carrier at all times?

A : Specimen fittings shown in the hatch cover manufacturer's manual

YIEM : What extent of hatch cover spares should be available on board at all times?

A : Specimen fittings shown in the hatch cover manufacturer's manual

YIGG : With reference to General Cargo vessels, which of the following statements is correct?

A : Hot rolled steel coils must not be exposed to salt water contamination

YIHT : What is understood by assigned frequency?

A : the frequency actually used by transmitter and receiver

YIIO : Where in a passenger ship is furniture, due to fire protection, to be kept to a minimum? (SOLAS II-2/34.6)

A : In stairways and corridors

YIKG : Must you be certified to be a lifeboat-commander?

A : Yes, you must attend to a course held by certified personnel, and then be certified by national authorities (NMD, USCG, etc)

YILF : On a Bulk Carrier, what should be done if the cargo loading rate exceeds the ballast discharge rate thereby affecting hull stresses?

A : Notify the port state authority with whom the loading plan has been lodged



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

YILF : What is the advantage of homogenous loading over alternate hold loading?

A : A significant decrease in shear forces

YILF : What should be done if the cargo loading rate exceeds the ballast discharge rate thereby affecting hull stresses?

A : Notify the port state authority with whom the loading plan has been lodged

YIPI : Classification societies require that when initially fitted to a boiler, safety valves must be subjected to a test of accumulation of pressure. Is this to:

A : Ensure the valves are of the correct discharge capacity for the boiler.

YISM : In some trades cargo hoses are carried onboard. These hoses are normally checked and tested annually. Amongst other testes and checks, a pressure test is done. The latter shall be done up to the working pressure of the hose plus:

A : 25 %

YITG : Epoxy coatings in tanks, which have been stressed beyond their chemical resistance during the carriage of strong solvents, tend to soften (you test for this with your nails or with standardised test pencils). If you encounter this condition you would:

A : Give the coating time to "weather out" the trapped solvents using good ventilation, and recover it's hardness again, prior loading the next cargo?

YIUF : What should you do in case of any fire breaks out?

A : Alert the bridge, Rescue human life, Extinguish if possible by use of available fire fighting-fighting appliances, Secure the area/ damage control

YIVB : How do you express the accuracy of an instrument

A : In % of full scale

YIXM : Secrecy in maritime radio traffic means that:

A : received messages, which aren't intended for own ship are not passed on

YJCA : What is the minimum Initial Transverse Metacentric Height (GM) allowed under the International Load Line Rules?

A : 0.15 metres

YJCM : Of the AM-signal:

A : amplitude is variable and frequency of carrier wave is constant

YJDI : With regard to portable fire-fighting equipment on ro-ro decks, what must be ensured upon completion of cargo loading operations?

A : All items of equipment must be in the designated position



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

YJGQ : What are the main components of the atmospheric air?

A : O₂: 21% N₂: 78% H₂O: traces CO₂: traces Rare gases: traces

YJIM : What do we call the heat given to or given up from a substance?

A : The heat given to or given up from a substance is called latent heat

YJMJ : Is it necessary to cool the water samples from the cooling system, before testing?

A : Yes, the samples should be cooled to approximately 25 C.

YJMJ : Is it necessary to cool the water samples from the cooling system, before testing?

A : Yes, must be cooled to 25 Degr. C.

YJNK : How often should boiler water tests be carried out on a steam boiler?

A : Every day.

YJNK : How often should boiler water tests be carried out on on a steam boiler?

A : Every day.

YJOA : Who has the legal responsibility for the placing and stowing of the cargo onboard?

A : The Stevedore company?

YJOG : To what Proof Load is an 80T SWL derrick tested?

A : 90T

YJRK : What is the main reason for sometimes having a separate forced lubrication system for the camshaft on large cross head engines?

A : To prevent any fuel leakage from the high pressure fuel pumps contaminating the oil in

YJRK : What is the main reason for sometimes having a separate forced lubrication system for the camshaft on large cross head engines?

A : To prevent the circulating oil in the crankcase from being contaminat with fuel oil

YJTI : Which one among the following information shall be marked on the container of an inflatable liferaft:

A : the number of persons the liferaft is permitted to carry



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

YJUB : Give the meaning of the following symbol

A : Fasten seat belts

YKDF : What is definition on clean water?

A : Water with less than 15 ppm vitiation of oil

YKFX : What factors do you consider as important before mooring a vessel?

A : Use of proper Personal Protective Equipment, Well maintained mooring equipment, Make sure the area is tidy and clean, Mooring stations should have effective hazard markings/ hazard highlightin

YKIE : During ship to ship transfer operations it is common to use the terms primary and secondary fenders. Primary fenders are:

A : Large fenders meant for floating between vessels and absorbing considerable impact. Example of fender size: L - 4.5 m. Dia. - 3.3 m

YKIE : During ship to ship transfer operations it is common to use the terms primary and secondary fenders. Primary fenders are:

A : Large fenders meant for floating between vessels and absorbing considerable impact. Example of fender size: L - 4.5 m. Dia. - 3.3 m

YKKV : How much food per person is supplied on a lifeboat?

A : Not less than 10000 kJ

YKKX : When fitting a mechanical seal consisting of carbon/porcelain rings care should be taken that:

A : All of the other alternatives.

YKMK : What is a steering wheel?

A : A wheel with which the ship is steered.

YKNC : In a distress situation and immediately after the distress signal has been sounded, what is the next action to be taken by the Chief Officer on duty?

A : Use the intercom to inform crew and passengers of the reason for the alarm

YKQR : Intership VHF communications should normally be operated :

A : In G3E mode - on simplex basis

YKVP : The squelch on a mariphone serves:

A : to suppress noise



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

YLAW : The oils used for medium and high speed diesel engine lubrication usually have alkaline additives which give the oil a Total Base Number of about 30 to 40 mg KOH/g. Why is it necessary to have such a TBN for these oils?

A : To neutralise the acids formed during combustion.

YLDC : Give the meaning of the following symbol

A : Portable foam applicator

YLEB : The cooling water temperature out of the engine becomes too high. Everything else is normal. What is the reason for this?

A : Fouled cooling water system.

YLFA : Chemical tankers of 20,000 tonnes DWT or above, with a keel laid on or after 1st July 1986, when carrying flammable products with a flashpoint not exceeding 60 degrees Celsius, such as those listed in chapters 17 and 18 of the International Bulk Chemical Code, are exempt from the requirement to be fitted with and use an inert gas plant provided certain conditions are met. Which of the following is a summary of those conditions?

A : The cargo tank does not exceed 3000 cubic metres capacity / each tank washing machine nozzle does not exceed 17.5 cubic metres per hour delivery rate / the total wash water input to the tank f

YLFV : What is the difference between purification and clarification

A : In a clarifier solids are removed from oil, whereas in a purifier solids and water are removed from oil

YLII : The plate heat exchanger is separated for cleaning. What will You do if the plates is thick with scale or other organic material?

A : Put the plates in water with qualified cleaning chemicals, and use soft brush, or high pressure cleaner with care.

YLKO : What is a passenger ship according to SOLAS regulations?

A : A ship which carries more than 12 passengers

YLLJ : What is the approximate upper flammable limit(UFL) of crude oil vapours by volume in air?

A : 10 to 11%

YLLL : On the figure 4 possible definitions of the term "FORWARD BREAST LINE" are given. Which one is the correct one?

A : Forward breast line is given by C on the figure

YLMY : When is it good practice to check the pressure-vacuum valves?

A : Prior to cargo transfer

YLNB : The authority to order the use of distress signal or distress alerts is:

A : only the master



YLNC : Give the meaning of the following symbol

A : Release falls

YLNy : What can be the result of the combination of free surface and flat tank bottom in partially loaded tank with heavy weather ballast?

A : Generation of wave energy.

YLNy : What can be the result of the combination of free surface and flat tank bottom in partially loaded tank with heavy weather ballast?

A : Generation of wave energy.

YLNy : What is the purpose of permanent continuous coamings from side to side across the decks near the accommodation of an oil tanker?

A : To keep deck spills away from the accommodation and service areas

YLPV : Can a Norwegian Consulate execute authority on behalf of the Norwegian Maritime Directorate (NMD)?

A : A Norwegian Consulate has already duties on behalf of the NMD and the directorate can in addition instruct a Consulate to act on the directorate's authority

YLQT : Which of the following signal letters states that the ship is registered in NIS?

A : LAPQ4

YLRD : When during transmitting the display of a radiotelephone-installation shows a decrease in transmitting power it is:

A : an indication of aerial problems

YLTE : The compartment for cargo tank liquid dome shall be maintained inerted. Nitrogen shall be used for inerting. What is the maximum allowable O₂ content?

A : 5% O₂.

YLTE : The space between the cargo tank liquid dome and dome cover for an LNG carrier is maintained inerted, usually using nitrogen. What is the maximum allowable O₂ content of the nitrogen used for this purpose?

A : 5% O₂.

YMAR : What colour flare is used to signal a safe landing place for small boats ?

A : Green

YMBN : What are the three Search and Rescue urgency phases

A : Uncertainty - Alert - Distress



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

YMCC : On which type of gas carrier can spherical tanks be used for the cargo system?

A : Spherical cargo tanks are used on all types of gas carrier, fully refrigerated, semi-refrigerated and fully pressurised gas carriers

YMCH : What is the general emergency alarm signal to be sounded by the ships whistle and alarm bells in case of an emergency situation?

A : Seven short blasts followed by one prolonged blast

YMEC : On a Container vessel, under which IMDG Class is fishmeal normally carried when treated with anti-oxidant?

A : Class 9 - Miscellaneous dangerous substances and articles

YMEC : Under which IMDG Class is fishmeal normally carried when treated with anti-oxidant?

A : Class 9 - Miscellaneous dangerous substances and articles

YMFJ : In the diagram, which letter is pointing at the area known as the "BOW" of the ship?

A : Bow/stem is given by B on the figure

YMHY : High-level alarms are always switched on during loading operations. Is it necessary to have them switched on during discharge operations?

A : Yes, there is still a risk of overflow if several tanks are connected to a common line system.

YMHY : High-level alarms are always switched on during loading operations. Is it necessary to have them switched on during discharge operations on a chemical tanker?

A : Yes, there is still a risk of overflow if several tanks are connected to a common line system.

YMJJ : With the set point at the actual desired value, a temperature control system is giving an unacceptably large offset (difference between set point and measured value) on high load resulting in a low system temperature. Which of the actions given in the options should be taken to reduce this effect and therefore achieve closer control of the temperature?

A : Reduce the width of the proportional band for the controller.

YMKs : What is the term used to refer to the valve that prevents backflow of water from the boiler to the feed water system?

A : Feed-check valve

YMNS : The IMO IGC Code requires that the cargo tanks of an LNG carrier are fitted with pressure relief valves; the number of valves depends on the individual capacity of the tank. What is the required number of valves to be fitted to a cargo tank of less than 20 cubic meters capacity?

A : At least one pressure relief valve.

YMNS : What is the minimum number of relief valves to be fitted to any cargo tank of greater than 20 cubic meters capacity?

A : At least two pressure relief valves.



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

YMPN : Passenger ships shall either carry automatically self-righting liferafts or canopied reversible liferafts. What does it mean that a liferaft is automatically self-righting?

A : The liferaft will automatically turn back into an upright position when it is empty of people

YMYA : Your vessel is acting as the on scene commander during a distress rescue. Various vessels are interfering the distress traffic on the VHF. What message would you use to stop them interfering with this traffic?

A : Seelonce mayday

YBNB : What do you do after receiving a VHF DSC DISTRESS call ?

A : You set watch on channel 16

YNDB : At the end of a radio telex-connection, when a 'store and forward' message has been transmitted, the coast-station at least gives a:

A : time (in UTC) whereupon the telex for the subscriber is delivered.

YNDV : The engine turns when starting air is supplied but does not start. What could be the probable cause to this?

A : Leaking valves in the cylinder heads.

YNDY : The traffic list of a coast-station is a list
o f :

A : call-signs of ships for which a radio-telephone call, a telegram or another call is intended

YNEO : The stability and strength of a liferaft when loaded with its full complement of persons and equipment is such that it can be towed in calm water at speeds of up to:

A : 5 knots

YNET : If the refrigerating compressor has been running satisfactorily for a long period of time but suddenly the compartment temperature started to rise, the trouble might be

A : All alternatives

YNFH : The remote reading temperature gauge for the meat room is reading a higher temperature than the local liquid in glass thermometer. When removed and tested the remote gauge is found to be reading accurately. Which of the options given is the most likely cause of this discrepancy?

A : The sensing bulb for the remote gauge is placed in a relative local hot spot inside the meat room.

YNFL : The first step in completing an SSA is to:

A : Create a list of potential motives for security incidents against your ship.

YNKQ : Is it possible to discharge a fully-refrigerated gas carrier if brake down on a discharge pump?

A : Fully-refrigerated gas carrier can be discharged by condensate the cargo to shore or another cargo tank or let it boil off



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

YNKQ : Is it possible to discharge a liquefied gas carrier with a fully-refrigerated cargo by pressurising the vapour space if the cargo discharge pumps have failed?

A : Fully-refrigerated gas carrier can be discharged by condensate the cargo to shore or another cargo tank or let it boil off

YNKS : In the chemical industry the effect on a person of long term exposure to low concentration of a substance is of prime concern. The expression TLV (Treshold Limit Value) is used to express the concentration of a substance in parts per million that must not be exceeded if a person is exposed to a substance for a period of:

A : 8 hours a day?

YNPN : After complete shut down of the steam plant, the boiler have been heated in accordance to correct starting up procedure, and is now firing at working pressure. You are going to open the main steam valve to the system. What will be the correct procedure for this operation?

A : Open steam valve very slowly, considering system expansion.

YNQG : As part of the decommissioning process for old reefer vessels they are sent to a recycling yard where any refrigerant remaining in the refrigeration system is dealt with. Which one of the actions given in the options needs to be carried out in preparation for delivery of a vessel to a recycling yard?

A : Make a careful note of the quantities of gas onboard and note this in the Ozone Depletion Record Book prior to discharging the gas into recovery bottles.

YNRG : Give the meaning of the following symbol

A : Emergency fire pump

YNRH : On-board training in the use of davit-launched liferafts (including inflation and lowering whenever practicable) must take place

A : every 4 months

YNUN : The radiotelephony two tone alarm should NOT be used when sending which of the following types of messages?

A : Message concerning an important navigational message.

YNUO : In US waters "Oil Pollution Act of 1990" was activated in August 1993. What is the main issue for the introduction of the act?

A : To prevent oil spills in US waters?

YNVI : Which statement is NOT true concerning precautions during fueling operations?

A : Fuel tanks should be topped off with no room for expansion.

YNVI : Which statement is NOT true concerning precautions during fuelling operations?

A : Fuel tanks should be topped off with no room for expansion.

YNXB : What does atomizing mean when we talk about injectors?

A : That no solid beam of fuel shall be present



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

YNYU : What is most important to take with you in a lifeboat if the ship is abandoned?

A : Warm clothes, blankets and lifevests.

YNYU : What is most important to take with you in a lifeboat if the ship is abandoned?

A : Warm clothes, blankets and lifevests.

YOAM : What is meant in mariphone traffic with a coast-station by a "personal call":

A : a telephone conversation with a person whose name is known, department or extension on the telephone number given

YONW : Give the meaning of the following symbol

A : Sprinkler section valve

YOOK : What would be the effect if air was to enter a freon refrigeration system?

A : Increase in condenser pressure.

YOOP : How many rescue boats should be provided on ro-ro passenger ships of 500 gross tons and above?

A : Two, and at least one of the rescue boats shall be a Fast Rescue Boat

YOPO : A vessel at anchor in fog may in addition to the normal signals make an additional signal on its whistle to give warning of her position and of the possibility of collision to an approaching vessel. What is this signal?

A : One short blast, one prolonged blast, one short blast

YORD : How many carbon atoms are there in solid materials?

A : Above 16 carbon atoms.

YORD : What do the letters LNG usually stand for in relation to shipping and, in particular, to an LNG carrier?

A : Liquefied Natural Gas carrier.

YORY : A person wearing an immersion suit which has its own buoyancy is able to turn from a face-down to a face-up position in not more than:

A : 5 sec

YOZR : What is one of the methods used by an aircraft to attract a vessels attention for participation in a rescue operation?

A : Circle the vessel.



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

YOUP : Which of the following features is required for an anti-exposure suit ?

A : is marked that it must be worn in conjunction with warm clothing if it is made of material which has no inherent insulation

YOWU : Under ISM, what is a "non-conformity"?

A : An observed situation where objective evidence indicates the non-fulfilment of a specified requirement

YOYN : What is the function of a lashing plate?

A : A means of securing turnbuckles

YOYO : A message is sent to a fax-machine. However the message cannot be delivered by the land earth station. The land earth station will:

A : automatically send a non-delivery notification (NDN) to the sender

YPAH : A lifejacket should be provided with:

A : A whistle and a light

YPCU : What is the best place to store the international shore connection?

A : At a place easily accessible from the shore

YPCX : Prior to commence loading, in what way would you best ensure a smooth technical operation?

A : All the mentioned alternatives?

YPLP : A mixed cargo of hard frozen products is to be loaded in layers into one deep cargo space on a conventional reefer vessel. The products are steel drums of frozen orange juice, frozen meat in cartons and frozen beef hocks in muslin. What would be the best position for loading the drums of orange juice?

A : In the bottom layer.

YYPE : On area A4 the function " Transmission and reception of on scene communications" is mainly based on:

A : the use of MF and/or VHF R/T

YPPH : Which person is qualified to carry out a five yearly thorough survey of cargo gear on a General Cargo vessel?

A : A classification society surveyor

YPRY : On an enclosed car deck, may the drivers stay in their vehicles during the voyage?

A : No, it is not allowed



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

YPSO : Which among the following list is particularly required for a totally enclosed lifeboat ?

A : automatic self-righting abilities when every persons are held in their place

YPYM : Which of these are indications that a parcel is suspicious?

A : The parcel is addressed to no one in particular, arrives unexpectedly and seems heavy for its size."

YQFW : A delta connected 3-phase A.C. induction motor is running normally at its rated current of 150 A when a single phasing fault (open circuit) occurs in one line. The likely outcome will be:

A : Line currents: 0 A, 180 A, 180 A. Trip condition: trip on overload.

YQGU : Are mooring boats required for vessels transiting the Suez Canal?

A : Ships can use their own boats if they cannot safely lift hired boats, but boat crews must be hired from shore

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A : Ships can use their own boats if they cannot safely lift hired boats, but boat crews must be hired from shore

YQGV : The figures show a graphical symbol for a particular electronic component and a typical working characteristic for the same component. Which component?

A : Silicon controlled rectifier (SCR)

YQHS : When it is midsummer in northern Europe, what time of the year is it in South Africa?

A : Midwinter

YQIL : Why is it important not to machine-dry linen completely?

A : To prevent too much shrinkage.

YQIM : In which compartments are halogenated hydrocarbons not allowed as fire-extinguishing media? (SOLAS II-2/5.3.1)

A : General cargo holds

YQOD : The display of the DSC-controller on board is showing the following lines: (see original) This DSC-message is:

A : neither for ...

YQPA : When would an Intermediate survey be carried out on a certificate which has a 5 year validity?

A : 30 months before the expiry date- +/- 6 months



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

YQPC : What is the mean of mean draught?

A : 6 (forward mean draught + after mean draught) divided by 8

YQPX : What is flashpoint of an oil or liquefied gas?

A : The flash point for an oil or liquefied gas is the temperature at which it is possible to ignite the vapour above the liquid

YQTG : What would you do if you saw a person falling overboard?

A : If I saw a person falling overboard I would shout repeatedly, "Man overboard"

YQTK : What is the first thing you are doing when having a lifeboat drill?

A : Put on the life jacket

YQXU : Which part of the magnetic compass error changes with a change in the course steered

A : Deviation

YQXU : Which part of the magnetic compass error changes with a change in the course steered?

A : Deviation

YRAB : When must lifting plant on a General Cargo vessel be proof load tested?

A : When equipment is new, every five years and after repairs or major modifications

YRDV : Which of the following cargoes can normally be loaded next to each other in the same space of a General Cargo vessel?

A : Drums of cement and steel pipes

YRFB : Your vessel is alongside and it's not possible to use the accommodation ladder or any gangway is available from shore, where will you endeavour to rig your portable gangway according to CDI ?

A : Aft of the manifold.

YRFB : Your vessel is alongside and its not possible to use the accommodation ladder or any gangway is available from shore, where will you endeavour to rig your portable gangway according to CDI ?

A : Aft of the manifold.

YRFX : Which of the following foods contains the most fibre?

A : Vegetables



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

YRRM : Apart from red, what other colour is frequently used for a dry powder extinguisher?

A : Blue

YRRO : You are going to enter a tank to lift out some sediments. What kind of permits need to be issued before entering?

A : Enclosed Space Entry Permit and Cold Work Permit.

YRWB : In terms of cargo operations on an oil tanker, what is "topping off"?

A : Completing the loading of a tank to the required ullage

YRWB : In terms of cargo operations on an oil tanker, what is "topping off"?

A : Completing the loading of a tank to the required ullage

YRWB : When talking about cargo operations on an oil tanker, what is "topping off"?

A : Completing the loading of a tank to the required ullage

YSFV : If the general alarm is sounding and evacuation of the ship is required. What is the best way to ensure that all passengers are aware of the situation?

A : Inform the passengers through Public Address system. Crew with designated emergency duties should proceed to their cabin section and search all cabins. Guide and evacuate passengers. If the ar

YSGL : What should not be found on the muster list ?

A : the name of each occupants (passengers included, if any)

YSJC : Which class of emission is used for HF radio telephony transmissions ?

A : J3E

YSJF : How many two-way VHF radiotelephone apparatus shall be provided on board a ro-ro passenger ship of 500 gross tonnage and upwards?

A : 3

YSNQ : What is the estimated average daily calorie intake required by an active adult male?

A : 2900

YSNQ : What is the estimated average daily calorific intake required by an active adult male?

A : 2900



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

YSQG : Port State Control Officers are authorised to:

A : Inspect and detain ship that are not meeting the requirements until they are able to demonstrate compliance with the regulations

YSSE : Quick closing devices operable from upper deck outside the engine room, are provided for all fuel valves connected to the fuel tanks in the engine room. The function of the quick closing devices are checked being in functioning condition during Safety Equipment survey. Would it be advisable to have these safety functions frequently tested?

A : Yes, the quick closing devices shall be tested and maintained frequently to ensure proper function in case of fire in the engine room.

YSTY : To get the best possible efficiency from evaporators, the superheat should be regulated to:

A : 5 - 10 Degr. C.

YSUB : What could be the probable cause of chain vibration?

A : Any of the below.

YSUD : We can observe gray/white smoke from an exhaust pipe in the funnel (from a 4 stroke engine). The possibilities are:

A : Water leaking into the combustion chamber.

YSUS : Give the meaning of the following symbol

A : EPIRB

YSVB : What name is given to the dish where a beaten egg mixture is cooked in a shallow pan until set and then folded over, sometimes around a filling, before serving?

A : Omelette.

YSVB : What name is given to the oriental cooking pan, with a small base and wide sloping sides, commonly used for "stir-fry" dishes?

A : Wok.

YSVQ : How much water per person is provided in a liferaft not equipped with a desalting apparatus?

A : 1.5 litre

YSYB : How do we recognize a leaking fuel injector during testing?

A : If a sudden drop in pressure appears after the valve is supposed to be closed, this is caused by a leak

YSYG : MF/HF 2187,5 Khz ALL SHIP DISTRESS 227852000 FIRE N 50 00 W 000 10 11:10 ACK RQ What is false regarding the above call ?

A : This call is an all station call



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

YTKY : Which one of the listed requirements regarding service and maintenance of life-saving appliances correspond to present regulations?

A : At least one member of the crew shall hold a repairman certificate for life-saving equipment

YTKY : Which one of the listed requirements regarding service and maintenance of life-saving appliances do not correspond to present regulations?

A : At least one member of the crew shall hold a repairman certificate for life-saving equipment

YTMM : What may be issued by the shipper to indicate that a vessel or her operators will not be held responsible for any damage that may arise from the carrier issuing a clean Bill of Lading, even though the Mates receipt is marked as "unclean", such as may apply to atmospheric corrosion on steel plates that have been waiting in a port facility for some time awaiting shipment?

A : A Letter of Indemnity.

YTQK : Which item among those below is included in the normal equipment of every lifeboat ?

A : three tin-openers

YTQQ : What should be avoided when using ship's tanks as slop tanks ?

A : Mixing of : Incompatible cargoes, Annex 1 and Annex II cargoes and veg oils with chemical slop.

YTQQ : What should be avoided when using ships tanks as slop tanks ?

A : Mixing of : Incompatible cargoes, Annex 1 and Annex II cargoes and veg oils with chemical slop.

YTSF : What is the advantages of a GPS satellite system compared to other navigational aids?

A : The GPS system gives information about position, speed and time continuously world wide.

YTSF : What is the advantages of a GPS-satellite system compared to other navigational aids?

A : The GPS system gives information about position, speed and time continuously world wide.

YTTD : Which is the "LENGTH OVERALL", in the figure?

A : Length overall is given by B on the figure

YTYS : Welding and burning are among the factors which give the highest risk of fire on board ships. Precaution has to be taken to avoid this risk. Which of the following safety rules may be regarded as the most important?

A : The welder shall have been instructed in the use of the ship's welding plant.

YUJH : During bunker transfer operations, deck scuppers should be:

A : Plugged to prevent spilled oil flowing overboard



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

YUKR : Due to exposure to heat fatigue, heat stroke and dehydration, what is the maximum recommended effective temperature (ET) for full work load in enclosed spaces?

A : 30.5°C ET?

YUNF : What action should you take if you have a flash-back during gas welding?

A : Close the valves, oxygen first.

YUNF : What action should you take if you have a flash-back during gas welding?

A : Close the regulator valves immediately, oxygen first.

YUNY : How much fat does full cream long life milk contain?

A : 3,5 - 3,9%

YUOW : On the figure 4 possible definitions of the term "ROLLER FAIRLEAD" are given. Which one is the correct one?

A : Roller fairlead is given by B on the figure

YUTT : An area A3 is:

A : an area excluding sea areas A1 and A2 within the radiotelephone coverage of at least one Inmarsat geostationary satellite in which continuous alerting is available

YUVL : On area A1 the function "Reception of shore to ship distress alerts" is mainly based on:

A : the use of VHF DSC

YUVN : What are the additional duties required by the Officer of the Watch when navigating in fog?

A : To be briefed about what to expect and when ships and lights should be detected

YUYX : For how long is the health certificate valid for a seafarer in foreign trade?

A : One year.

YVFL : One of the following arguments is not valid regarding discharge of oil/oily mix into sea:

A : The lower speed the higher ratio of oil/oily water can be discharged?

YVGK : How do we define the location of the "pivot point"?

A : The point where the sideways motion of the ship's centreline is zero



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

YVGL : An invalidated vessels certificate shall be:

A : Returned to the Ship Control via a Norwegian Consulate

YVJT : At what pressures are P/V valves usually set to open in relation to atmospheric pressure?

A : 2 PSI above / 0,5 PSI below?

YVJW : What is an A/D and a D/A converter?

A : A converter that converts an analogue signal to a digital signal and vice versa

YVNV : Which of the following fittings shall be provided to all lifeboats:

A : one drain valve fitted near the lowest point in the hull, except for free-fall lifeboats

YVQI : Who assist the Norwegian Maritime Directorate in the public control of seaworthiness of ships?

A : Maritime investigators, The ship Control,, the Electrical Inspectorate, and other public institutions, Det Norske Veritas and other approved survey institutions, other private institutions of foreign countries, the authorities of foreign countries

YVTS : What is an oxygen analyzer used for?

A : Measure oxygen contents in the atmosphere.

YVXD : Which of the following actions should be done before throwing this type of inflatable liferaft over the side?

A : Check that the painter is made fast to a secure point and that the sea below is clear

YWBF : Ships registered in the Norwegian International Ship Register are subject to public control in accordance with:

A : The Seaworthiness Act

YWBW : Why must inert gas from a combustion-type generator never be used when preparing cargo tanks for ammonia?

A : Because ammonia reacts with the carbon dioxide in inert gas.

YWBW : Why must inert gas from a combustion-type generator never be used when preparing the cargo tanks of a liquefied gas carrier for a cargo of ammonia?

A : Because inert gas from this type of generator contains carbon dioxide which reacts with ammonia to form carbamates.

YWEO : After discharging a Cat "D" Chemical inside "Special Areas" and performed stripping according to P&A manual, the tank washing water may be discharged as follows :

A : Dilute the remains by 10 times with water, then overboard if the vessel is more than 12 miles off land and proceeding at a speed of 7 knots or more. The discharge need not take place below the waterline.



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

YWEP : Which of the following appliances are compulsorily in any ro-ro cargo space intended for the carriage of motor vehicles with fuel in their tanks for their own propulsion?

A : At least one portable foam applicator unit

YWEP : Which of the following appliances must compulsorily be found in any ro-ro cargo space intended for the carriage of motor vehicles with fuel in their tanks for their own propulsion?

A : At least one portable foam applicator unit

YWFH : What will occur within the cargo tank if Crude Oil Washing is undertaken with oil containing a substantial amount of water?

A : Electrostatic hazards?

YWHM : Some fuel oil and lubricating oil separators have a facility to control the back pressure of the clean oil outlet during start up and operation. What is the purpose of this control function?

A : To help to maintain the oil/water interface at the correct position.

YWHM : Some fuel oil and lubricating oil separators have a facility to control the back pressure of the clean oil outlet. What is the purpose of this control function?

A : To help to maintain the oil/water interface at the correct position.

YWIY : W h a t i s
S O P E P ?

A : A Shipboard Oil Pollution Emergency Plan

YWKI : A ships electrical system operates at 60Hz but when connected to shore supply it is supplied with 50Hz. Which of the following would you expect?

A : Electric motors will run at reduced speed and will tend to overheat.

YWKI : A ships electrical system operates at 60Hz but when on shore supply is supplied with 50Hz. Which of the following would you expect?

A : Electric motors will run at reduced speed and will tend to overheat.

YWMB : The PTT-switch must
b e :

A : pressed in during transmitting only to work simplex

YWNV : By propagation in radio-traffic is understood:

A : the way radio waves are propagated

YWXD : What additional requirement must be observed if a cargo tank is to be cleaned by recirculation with a low flash or static accumulator product?

A : The tank must be inerted to less than 8% oxygen content.



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

YWXD : What additional requirement must be observed if a cargo tank on a chemical tanker is to be cleaned by recirculation with a low flash or static accumulator product?

A : The tank must be inerted to less than 8% oxygen content.

YXCS : A person wearing an adult lifejacket shall be able:

A : to swim a short distance through the water and board a survival craft

YXDO : On area A1 the function "Transmission and reception of on scene communications" is mainly based on:

A : the use of VHF R/T

YXEN : What is the usual range of a VHF equipment ?

A : 30 miles

YXHL : What is the minimum length of rubber insert when replacing a damaged section of the hatch cover seal?

A : 500 mm

YXVD : During a mooring operation whilst underway it is recommended that, with one ship maintaining a constant course and speed, the other manoeuvres
s o
t h a t :

A : The manoeuvring vessel presents her port side to the constant direction vessel

YXWV : The number and positions of hydrants shall be such that:

A : At least two jets of water not emanating from the same hydrant, one of which from a single length of hose, may reach any part of the ship normally accessible to passengers and crew

YXWW : When acting as helmsman would you expect the reading of the gyro compass to be the same as the magnetic compass?

A : He is steering the ship.

YXYL : Where do you think the "pivot point" is located when your ship is going full speed ahead? No wind, current.

A : At about 1/6 of the ship's length from the bow

YYAH : On a Container vessel, to what would a fibreglass yacht be secured after lifting onboard?

A : The cradle

YYBC : Which of these precautionary measures can reduce the threat of piracy, if implemented?

A : Sail at full speed.



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

YYBW : Hands in frequent contact with cleaning solutions often turns dry, chapped and itching. What should you do to prevent this?

A : By using rubber gloves.

YYFY : What are the main priorities of the leader of the fire fighting teams?

A : Rescuing of life, fighting the fire, limitation of the fire and secure the retreat

YYIS : Any person serving on board who without the permission of the shipmaster leaves the ship in distress or other danger while the master still on board shall be liable to??????

A : Fines or imprisonment for a term not exceeding 6 months.

YYMJ : What is the purpose of introducing inert gas into cargo tanks?

A : To create a non-explosive atmosphere in the tank.

YYMW : Two reference points for pressure exist, absolute zero and atmospheric pressure. What are pressures measured relative to absolute zero called?

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YYNQ : For ideal synchronising, the phase angle difference between the incoming e.m.f. and the busbar voltage should be:

A : 0°

YYNS : In ships carrying very hot cargoes above 140 degrees Celsius - which might cause local steel buckling - such as molten sulfur and asphalt, it is noticed that while sulfur is carried in independent tanks, the asphalt can be carried in tanks integral with the ship's hull. This is because:

A : The asphalt unlike sulfur is a viscous product and does not transmit its heat easily to the steel bulkheads, allowing the steel to stay cooler than the cargo

YYPC : A reefer vessel, which is about to carry a palletised cargo, has to have available sufficient cargo equipment including air bags (dunnage bags), air lines and valves, cargo slings, wooden dunnage, nails, etc. These items are required to ensure a quick loading operation and a successful passage. Complete the following statement from the options given. "Air bags are particularly important in that"....

A : ... they reduce the movement of the pallets and prevent short circuiting of the air flow.

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CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

YYPD : How many Radar Transponders (SART) are required to be carried onboard a ship for use in survival crafts?

A : One on each side of the ship

YYPG : Which of following items shall be included in an abandon ship drill?

A : Checking that lifejackets are correctly donned.

YYPX : A vessels main propulsion system consists of a pair of medium speed diesel engines driving a single controllable pitch propeller through clutches and coupled through a reduction gearbox. What is the preferred sequence to follow when going from two engine to single engine operation? Assume engine A is to be stopped and engine B is to continue running

A : Pitch to zero thrust, reduce speed to idling speed, disengage clutch of engine A, increase speed of engine B and propeller pitch as required. Stop engine A after suitable cooling period.

YYQE : The Training Manual shall contain instructions and information on the life-saving appliances and the best method of survival. The training manual shall contain detailed explanations of crew duties in relation to emergency situations. Which of the following tasks or duties shall be included in the manual according to present regulations?

A : Correct donning of life-jackets.

YYQL : What is the minimum requirement with respect to pressure relief valves on the cargo tanks of an LNG carrier where the individual tanks are over 20 cubic metres capacity?

A : Two valves.

YYQL : What is the requirement with respect to pressure/vacuum valves on cargo tanks?

A : Two valves.

YYRO : Why do we have to make sure that the plate pack is compressed to the right measurement A, after insertion of plates?

A : To prevent serious damages to the plates.

YYRT : An abandon ship drill must take place 24 hours after the ship leaving a port with new crew members

A : if they are more than 25% of the total crew

YYSM : Which of the following fluids has the highest density?

A : Sea water

YYSQ : If something is broken or missing, what should the First Mate do?

A : He is to notify the Chief Officer

YYSV : If the carriage of a new Noxious Liquid Substance not yet listed in the IBC Code is considered, this may be achieved through a "tri-partite" agreement. Who must this agreement be between?

A : The Port State of the Shipper / the Flag State of the Carrier / the Port State of the Receiver.



CES 4.1 & 5 Seagull AS (QUESTIONS & CORRECT ANSWERS)

YYUQ : How are cargoes in self-unloading bulk carriers fed to the vessel's conveyor belts during discharge?

A : Via hydraulically-operated hopper gates at the bottom of each hold

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YYUQ : How is cargo in a self-unloading bulk carrier fed to the vessel's conveyor belts during discharge?

A : Via hydraulically-operated hopper gates at the bottom of each hold

YYUS : Is it mandatory with oil/water interface detector onboard oil tankers?

A : Yes, on oil tankers of 150 gross tonnage and above.

YYUS : What is to be considered when deciding the position of the accommodation on an oil tanker?

A : A single failure of deck or bulkhead shall not allow fumes into the accommodation spaces.

YYXR : Which of the following answers most suitably cover the standard duties of the bridge Officer of the Watch when the ship is at anchorage?

A : Anchor ball.

ZXSD : Pure Nitrogen is sometimes used to blanket sensitive cargoes because:

A : All the mentioned alternatives