

## U.S.C.G. Merchant Marine Exam

Mate Less than 500-1600 Gross Registered Tons

Q136 Deck General

(Sample Examination)

**Choose the best answer to the following Multiple Choice Questions.**

1. How many months after its expiration date may a Coast Guard credential be renewed without retaking the complete exam?

- (A) 1 month
- (B) 6 months
- (C) 12 months
- (D) 24 months

*If choice C is selected set score to 1.*

2. You are drifting in a locale where there is no current. As a rule, your vessel will lie \_\_\_\_\_.

- (A) bow to the wind
- (B) with the wind on the quarter
- (C) stern to the wind
- (D) beam to the wind

*If choice D is selected set score to 1.*

3. According to U.S. regulations, how many emergency outfits are required to be carried onboard all tankships over 1,000 gross tons?

- (A) Four emergency outfits
- (B) Two emergency outfits
- (C) One emergency outfit
- (D) Three emergency outfits

*If choice B is selected set score to 1.*

4. There is a large shipment of case goods available to be loaded on your vessel. You are to load as many tons as possible in a hold which has 32,300 cubic feet left unfilled by cargo. Each case measures 2-feet high by 2-feet wide by 4-feet long and weighs 500 pounds. If you allow a broken stowage allowance of 10% of the 32,300 feet, what is the nearest whole number of tons which may be loaded?

- (A) 324 tons
- (B) 360 tons
- (C) 363 tons
- (D) 406 tons

*If choice D is selected set score to 1.*

5. Which statement about entering into a tank which has been sealed for a long time is TRUE?
- (A) The tank should be tested only once to ensure the oxygen content is at least 14% before entry.
  - (B) The tank need not be tested for oxygen content if it is ventilated for more than 24 hours.
  - (C) If the oxygen content tests at less than 12% you should wear an approved gas mask.
  - (D) The tank must be tested at frequent intervals to ensure that hazardous gasses have not regenerated.

*If choice D is selected set score to 1.*

6. What is a CORRECT reply to a pilot's request, "How's your head"?
- (A) "Steady"
  - (B) "Eased to 10° rudder"
  - (C) "Passing 50°"
  - (D) "Checked"

*If choice C is selected set score to 1.*

7. What is a "bowline" used for?
- (A) keep a line from fraying
  - (B) be a stopper
  - (C) join lines of equal size
  - (D) form a temporary eye (loop) at the end of a line

*If choice D is selected set score to 1.*

8. One shot of anchor chain is equal to how many feet (meters)?
- (A) 6 (1.8 meters)
  - (B) 15 (4.6 meters)
  - (C) 45 (13.7 meters)
  - (D) 90 (27.4 meters)

*If choice D is selected set score to 1.*

9. Carbon dioxide cylinders which protect machinery spaces, paint lockers and tanks may be located within those spaces when the amount of carbon dioxide does not exceed \_\_\_\_\_.
- (A) 150 lbs
  - (B) 300 lbs
  - (C) 450 lbs
  - (D) 600 lbs

*If choice B is selected set score to 1.*

**10.** Which method is used to detect rot in manila lines?

- (A) Observing for the appearance of mildew on the outer surface
- (B) Measuring the reduction in circumference of the line
- (C) Feeling the surface of the line for broken fibers
- (D) Opening the strands and examining the inner fibers

*If choice D is selected set score to 1.*

**11.** A nylon line is rated at 15,000 lbs. breaking strain. Using a safety factor of 5, what is the safe working load (SWL)?

- (A) 3,000 lbs
- (B) 5,000 lbs
- (C) 15,000 lbs
- (D) 65,000 lbs

*If choice A is selected set score to 1.*

**12.** What is/are the advantage(s) of cranes over conventional cargo booms?

- (A) Simplicity of operation of the crane by its operator
- (B) Increased safety because the deck is clear of running and standing rigging
- (C) Cranes are able to pick up and drop loads over a greater spotting area
- (D) All of the above

*If choice A is selected set score to 1.*

**13.** A gas-free certificate would usually be issued by a(n) \_\_\_\_\_.

- (A) Coast Guard marine inspector
- (B) ABS marine surveyor
- (C) port engineer
- (D) certified marine chemist

*If choice D is selected set score to 1.*

**14.** Grade E combustible liquids are those having flash points of \_\_\_\_\_.

- (A) 80°F or less
- (B) 150°F or greater
- (C) greater than 80°F and less than 115°F
- (D) greater than 115°F and less than 150°F

*If choice B is selected set score to 1.*

**15.** You are on a course of 000°T and put the rudder right 30°. In which direction will the transfer be measured?

- (A) 000°T
- (B) 090°T
- (C) 180°T
- (D) 270°T

*If choice B is selected set score to 1.*

**16.** How should cargo tank hatches be protected when the ullage opening is open and the tank NOT gas free?

- (A) With flame screens
- (B) With gooseneck vents
- (C) With pressure-vacuum relief valves
- (D) With warning signs

*If choice A is selected set score to 1.*

**17.** Which type of ice is a hazard to navigation?

- (A) Frazil ice
- (B) Pancake ice
- (C) Growlers
- (D) Ice rind

*If choice C is selected set score to 1.*

**18.** A rope made of a combination of wire and fiber is known as \_\_\_\_\_.

- (A) independent
- (B) lang lay
- (C) spring lay
- (D) preformed

*If choice C is selected set score to 1.*

**19.** Which document is NOT required by law to be posted aboard a vessel?

- (A) Official Crew List
- (B) Muster List
- (C) Officer's licenses
- (D) Certificate of Inspection

*If choice A is selected set score to 1.*

**20.** What is the mechanical advantage of tackle number 1 as shown in illustration D029DG below?

- (A) 1.0
- (B) 0.5
- (C) 2.0
- (D) 1.5

*If choice A is selected set score to 1.*

**21.** A precaution you should take before bunkering is to \_\_\_\_\_.

- (A) plug the scuppers
- (B) close the lids on the vents
- (C) plug the sounding pipes
- (D) plug the vents

*If choice A is selected set score to 1.*

**22.** Coast Guard Regulations permit which of the following systems to be used for fire prevention and the simultaneous inerting of cargo tanks on tank vessels?

- (A) The deck foam system
- (B) A fixed water spray system
- (C) The fire main system
- (D) An inert gas system

*If choice D is selected set score to 1.*

**23.** Flammable liquids should have what kind of label?

- (A) Yellow
- (B) Red
- (C) Skull and crossbones
- (D) White

*If choice B is selected set score to 1.*

**24.** Regulations require that cargo pumprooms handling grades D and/or E liquid cargo only shall be fitted with at LEAST how many ducts extended to the weather deck?

- (A) 1
- (B) 2
- (C) 3
- (D) 4

*If choice B is selected set score to 1.*

**25.** When the period of beam seas equals the natural rolling period of a vessel, what will most likely occur?

- (A) Excessive pitching
- (B) Excessive rolling
- (C) Excessive yawing
- (D) No change should be evident

*If choice B is selected set score to 1.*

**26.** While on duty as a look-out, which other duty may you perform?

- (A) Sweep down the fo'c'sle
- (B) Paint any area near your station
- (C) Overhaul a block, as long as it is at your look-out station
- (D) None of the above

*If choice D is selected set score to 1.*

**27.** Which is part of the ground tackle?

- (A) Devil's claw
- (B) Gooseneck
- (C) Rat's tail
- (D) Charlie noble

*If choice A is selected set score to 1.*

**28.** The BEST holding ground for conventional anchors is \_\_\_\_\_.

- (A) very soft mud
- (B) shale
- (C) hard mud
- (D) rock

*If choice C is selected set score to 1.*

**29.** When inspecting ground tackle, fractures are most frequently found in the \_\_\_\_\_.

- (A) swivel
- (B) fluke
- (C) anchor shank
- (D) end links

*If choice D is selected set score to 1.*

**30.** With an increase in temperature the volume of flammable and combustible liquids \_\_\_\_\_.

- (A) remains constant
- (B) remains constant if pressure remains constant
- (C) expands
- (D) contracts

*If choice C is selected set score to 1.*

**31.** In a following sea, a wave has overtaken your vessel and thrown the stern to starboard. To continue along your original course, you should \_\_\_\_\_.

- (A) decrease speed
- (B) use more left rudder
- (C) use more right rudder
- (D) increase speed

*If choice C is selected set score to 1.*

**32.** You are underway in heavy weather and your bow is into the seas. To prevent pounding, you should \_\_\_\_\_.

- (A) increase speed
- (B) change course, in order to take the seas at an 85 degree angle from the bow
- (C) secure all loose gear
- (D) decrease speed

*If choice D is selected set score to 1.*

**33.** A VLCC (100,000 DWT+) with a 30,000 Shaft Horsepower Steam Turbine is slow to respond to engine movements and has less stopping power than normal ships because it has a \_\_\_\_\_.

- (A) larger power to weight ratio
- (B) smaller power to weight ratio
- (C) smaller propeller
- (D) bigger propeller

*If choice B is selected set score to 1.*

**34.** A stream of water immediately surrounding a moving vessel's hull, flowing in the same direction as the vessel is known as \_\_\_\_\_.

- (A) propeller current
- (B) directional current
- (C) wake current
- (D) forward current

*If choice C is selected set score to 1.*

- 35.** When more than one vessel is being assisted by an icebreaker, distances between vessels should be constant. Which signal should be given by a vessel which is ahead of another and whose speed suddenly begins to drop?
- (A) A flag hoist consisting of the code figure "4"
  - (B) Four short blast on the whistle
  - (C) A flag hoist consisting of the code figure "5"
  - (D) A flag hoist consisting of the code letters "FE" (Foxtrot-Echo)

*If choice C is selected set score to 1.*

- 36.** Your vessel is being assisted through an ice field in Thunder Bay by the Canadian Coast Guard icebreaker Alexander Henry. The starboard lookout reports that the icebreaker has run up the code flag "N" (November). What action should you take?
- (A) Stop your engines
  - (B) Stop your vessel instantly
  - (C) Reverse your engines
  - (D) Reduce speed

*If choice A is selected set score to 1.*

- 37.** Which factor(s) should be considered when loading vehicles or trailers aboard Ro-Ro vessels?
- (A) Vertical clearances
  - (B) Layout of decks
  - (C) Tie-down and lashing
  - (D) All of the above

*If choice D is selected set score to 1.*

- 38.** You are transporting dangerous cargo on your vessel. The Dangerous Cargo Manifest must be signed by the \_\_\_\_\_.
- (A) shipper
  - (B) U.S. Coast Guard Marine Inspector
  - (C) Master only
  - (D) Master or his authorized representative

*If choice D is selected set score to 1.*

**39.** You receive a package, for shipment aboard your vessel, containing Class 1 explosives. The package is damp, moldy and stained. You must \_\_\_\_\_.

- (A) seek the approval of the USCG Captain of the Port
- (B) refuse to accept the package
- (C) note the exception(s) on the Bill of Lading
- (D) replace the packaging material before stowage

*If choice B is selected set score to 1.*

**40.** You are ordering ship's stores. Which statement is TRUE?

- (A) Stores certified for use on uninspected vessels may be identified by the certification number used by Underwriter's Laboratories.
- (B) Acetylene may be in a ship's storeroom in quantities not exceeding 6000 cubic feet.
- (C) A portable container of a flammable liquid used as fuel for portable auxiliary equipment must be stowed in a paint locker or at a designated open location.
- (D) Stores such as line, rags, mattresses, linens, etc. must be treated to be fire retardant.

*If choice C is selected set score to 1.*

**41.** What is the Reid vapor pressure of a grade B product?

- (A) above 14 psia
- (B) more than 8 1/2 psia but less than 14 psia and a flash point of 72°F
- (C) 9 1/2 psia and a flash point of 95°F
- (D) 7 psia and a flash point of 80°F

*If choice B is selected set score to 1.*

**42.** During transfer operations, a quantity of propylamine spills on deck. According to the Chemical Data Guide, what is the correct reaction?

- (A) add sodium bisulfate on the contaminated surface and spray it down with water
- (B) cover the contaminated surface with soda-ash-soaked lime solution
- (C) move to a position upwind of the spill and allow the product to boil off
- (D) immediately flush the spill with large quantities of fresh water

*If choice A is selected set score to 1.*

**43.** According to U.S. regulations, which grade(s) of cargo may be carried in tanks that are vented only with gooseneck vents and flame screens?

- (A) C or D
- (B) B only
- (C) B or C
- (D) D or E

*If choice D is selected set score to 1.*

**44.** The most likely time for oil pollution while bunkering is when \_\_\_\_\_.

- (A) final topping off is occurring
- (B) hoses are being blown down
- (C) first starting to receive fuel
- (D) hoses are disconnected and being capped

*If choice A is selected set score to 1.*

**45.** If you are bunkering and you close off one tank in the line of tanks being filled, the rate of flow to other open tanks on the same line will \_\_\_\_\_.

- (A) increase
- (B) stop
- (C) remain constant
- (D) decrease

*If choice A is selected set score to 1.*

**46.** You are loading 465,000 barrels of cargo oil. At 0900 you find that you have loaded 207,000 barrels. At 1030 you find that you have loaded 223,000 barrels. If you continue loading at the same rate, you will finish at approximately \_\_\_\_\_.

- (A) 2100 that night
- (B) 0730 the next day
- (C) 0910 the next day
- (D) 1215 the next day

*If choice C is selected set score to 1.*

**47.** Flammable liquid means any liquid which gives off flammable vapors at or below \_\_\_\_\_.

- (A) 40°F (4.4°C)
- (B) 80°F (26.7°C)
- (C) 110°F (43.3°C)
- (D) 150°F (65.6°C)

*If choice B is selected set score to 1.*

**48.** The vapor pressure of a substance \_\_\_\_\_.

- (A) decreases as temperature increases
- (B) is not affected by temperature
- (C) increases with the temperature
- (D) may increase or decrease as the temperature rises

*If choice C is selected set score to 1.*

**49.** What type of liquid is used in the liquid P/V breaker?

- (A) Hydraulic oil
- (B) Distilled water
- (C) Oil from the cargo
- (D) Water-antifreeze mixture

*If choice D is selected set score to 1.*

**50.** Your vessel is taking on cargo oil when a small leak develops in the hose. You order the pumping stopped. Before you resume pumping, you should \_\_\_\_\_.

- (A) repair the hose with a patch
- (B) place a large drip pan under the leak and plug the scuppers
- (C) notify the terminal superintendent
- (D) replace the hose

If choice D is selected set score to 1

**51.** The most likely location for a liquid cargo fire to occur on a tanker would be \_\_\_\_\_.

- (A) in the midships house
- (B) in the pumproom
- (C) at the main deck manifold
- (D) at the vent header

*If choice B is selected set score to 1.*

**52.** Safety equipment on board vessels must be approved by the \_\_\_\_\_.

- (A) Safety Standards Bureau
- (B) U.S. Coast Guard
- (C) National Safety Council
- (D) Occupational Safety and Health Administration (OSHA)

*If choice B is selected set score to 1.*

**53.** On an inspected vessel, which abbreviation refers to the horizontal distance between perpendiculars taken at the forward-most and the after-most points on the waterline at her deepest operating draft?

- (A) LWL
- (B) LBP
- (C) LOA
- (D) LLL

*If choice B is selected set score to 1.*

**54.** The international body responsible for drafting the convention prohibiting marine pollution (MARPOL) is the \_\_\_\_\_.

- (A) Association of Seafaring Nations
- (B) International Association of Shipping
- (C) Maritime Advisory Council
- (D) International Maritime Organization

*If choice D is selected set score to 1.*

**55.** Load lines for U.S. vessels are assigned by \_\_\_\_\_.

- (A) the American Bureau of Shipping
- (B) the National Cargo Bureau
- (C) Lloyd's Register of Shipping
- (D) the U.S. Coast Guard

*If choice A is selected set score to 1.*

**56.** What is the name of the mark indicated by the letter C in illustration D003DG below?

- (A) Tropical water line
- (B) Winter North Atlantic water line
- (C) Fresh water line
- (D) Summer water line

*If choice C is selected set score to 1.*

**57.** The maximum draft to which a vessel can legally be submerged is indicated by the \_\_\_\_\_.

- (A) tonnage mark
- (B) load line mark
- (C) Certificate of Inspection
- (D) Muster List ("Station Bill")

*If choice B is selected set score to 1.*

**58.** While operating your oceangoing vessel you must keep a record of any discharge or disposal of garbage. When should these entries be made?

- (A) no later than 24 hours after disposal of the garbage
- (B) at the time the garbage was disposed
- (C) before arriving at your next port
- (D) before the end of the voyage

*If choice B is selected set score to 1.*

**59.** Which vessel is NOT required to have a Pollution Placard posted on board?

- (A) 215-foot naval auxiliary vessel
- (B) 75-foot towing vessel
- (C) 50-foot cabin cruiser used for pleasure only
- (D) 150-foot unmanned tank barge

*If choice A is selected set score to 1.*

**60.** According to regulations, a cargo hose used for transferring liquefied gases must have a bursting pressure of \_\_\_\_\_.

- (A) one half the designed working pressure
- (B) 5 times the maximum working pressure on the hose during cargo transfer
- (C) 5 times the minimum working pressure on the hose during cargo transfer
- (D) 4 times the pressure of the cargo pump used for transferring

*If choice B is selected set score to 1.*

**61.** A vessel in ocean service that does not have an approved means of processing oily bilge slops or oily ballast must have \_\_\_\_\_.

- (A) a discharge outlet for the ballast system on each side of the weather deck
- (B) a fixed piping system for ballast discharge to a reception facility
- (C) one portable adapter for a shore connection to the ballast line
- (D) All of the above

*If choice B is selected set score to 1.*

**62.** Which is an exception to the garbage discharge requirements in Annex V to MARPOL 73/78?

- (A) Garbage accumulation on board has exceeded storage space.
- (B) The garbage to be discharged will sink.
- (C) The destination port or terminal cannot receive garbage.
- (D) A person falls overboard, and a plastic ice chest is thrown for flotation.

*If choice D is selected set score to 1.*

**63.** The person in charge on the vessel and the person in charge at the facility must hold a meeting before starting the transfer of oil. Who must decide to start the transfer?

- (A) The person in charge on the vessel
- (B) The person in charge at the facility
- (C) The person in charge of either place that is doing the pumping
- (D) Both persons in charge

*If choice D is selected set score to 1.*

**64.** What is the period of validity of a Merchant Mariner Credential?

- (A) 2 years
- (B) 1 year
- (C) 3 years
- (D) 5 years

*If choice D is selected set score to 1.*

**65.** Which document will describe lifesaving equipment located aboard your vessel?

- (A) Muster List ("Station Bill")
- (B) Certificate of Inspection
- (C) Clearance Papers
- (D) Forecastle Card

*If choice B is selected set score to 1.*

**66.** What is the difference between net tonnage and gross tonnage?

- (A) Net tonnage is the gross tonnage less certain deductible spaces.
- (B) Net tonnage is the net weight of the ship.
- (C) Net tonnage is gross tonnage minus engine and bunker spaces.
- (D) Net tonnage is tonnage of cargo compared to tonnage of whole ship.

*If choice A is selected set score to 1.*

**67.** To determine the number of inflatable liferafts required on a vessel, you should check the \_\_\_\_\_.

- (A) Stability Letter
- (B) Load Line Certificate
- (C) Certificate of Inspection
- (D) SOLAS Certificate

*If choice C is selected set score to 1.*

**68.** The Oil Record Book on a vessel NOT engaged on a foreign voyage shall be maintained on board for not less than \_\_\_\_\_.

- (A) 12 months
- (B) 48 months
- (C) 36 months
- (D) 24 months

*If choice C is selected set score to 1.*

**69.** When an Official logbook is not required, an unofficial logbook is required to be kept aboard for review by a marine inspector for \_\_\_\_\_.

- (A) one month
- (B) 12 months
- (C) six months
- (D) None of the above

*If choice B is selected set score to 1.*

**70.** What is the period of validity of a Safety Management Certificate?

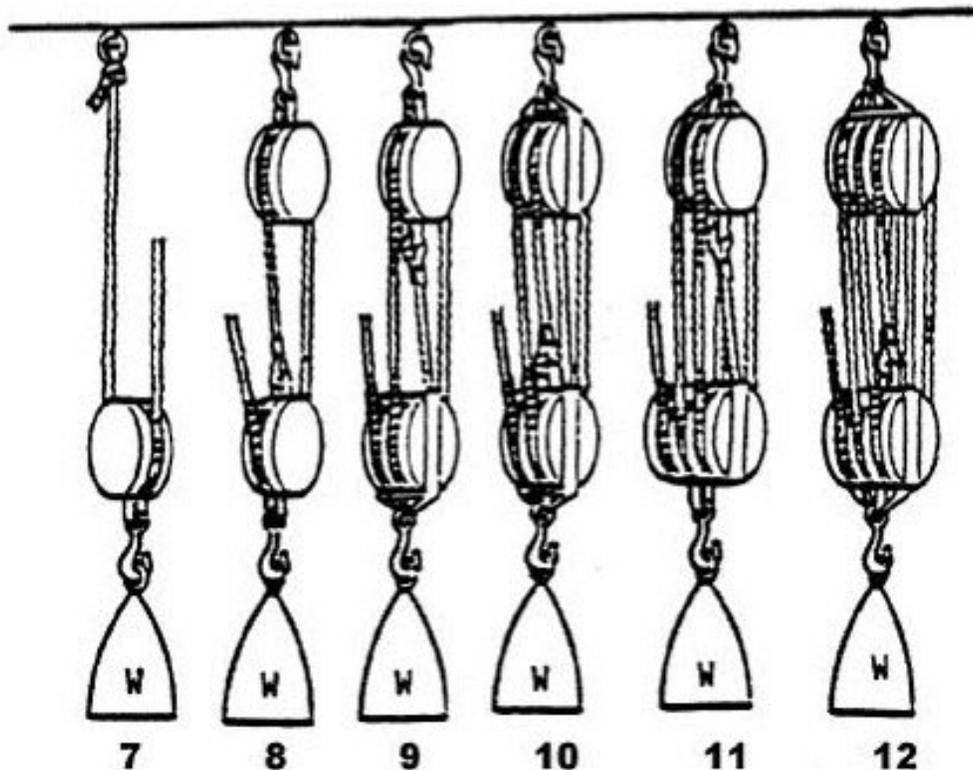
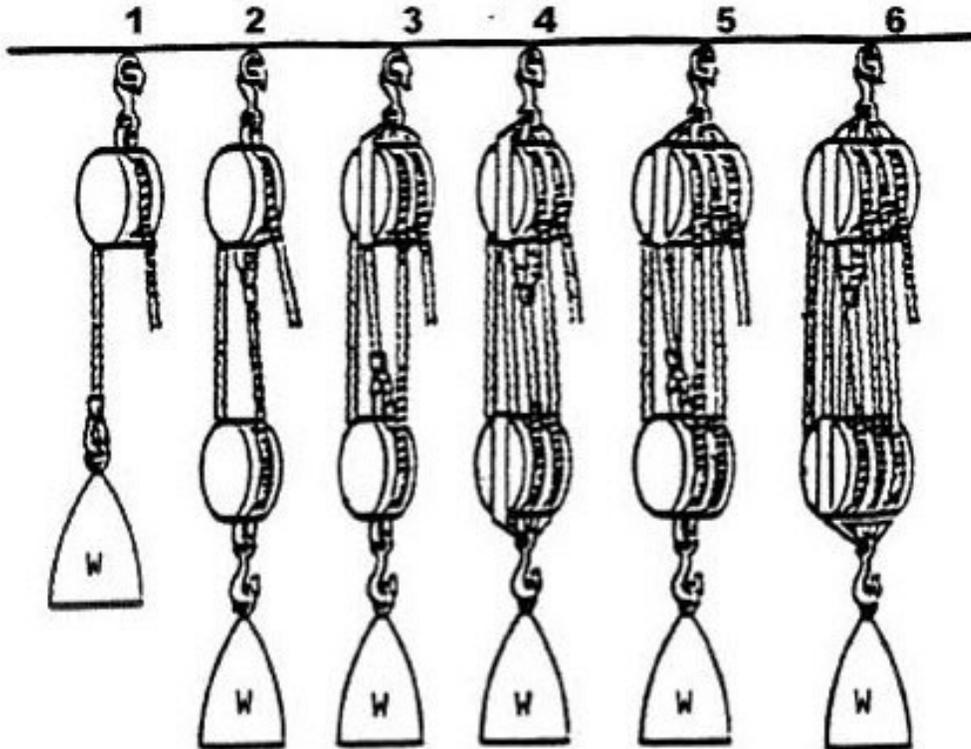
- (A) 60 months
- (B) 48 months
- (C) 42 months
- (D) 36 months

*If choice A is selected set score to 1.*

## D003DG



## D029DG



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