

U.S.C.G. Merchant Marine Exam
Mate Offshore Supply Vessels
Q209 Deck General
(Sample Examination)

Choose the best answer to the following Multiple Choice Questions.

1. Flammable liquids should have what kind of label?

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

If choice B is selected set score to 1.

2. You have completed a Dangerous Cargo Manifest for dangerous cargoes loaded on board. It should be kept in a conspicuous location _____.

- (A) outside the Captain's stateroom
- (B) in the radio room
- (C) in the ship's office
- (D) on or near the bridge

If choice D is selected set score to 1.

3. The figure obtained by dividing the total volume of the ship in cubic feet (after omission of exempted spaces) by 100 is the _____.

- (A) gross tonnage
- (B) bale cubic
- (C) net tonnage
- (D) light displacement

If choice A is selected set score to 1.

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

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

If choice D is selected set score to 1.

5. 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.

6. 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) LBP
 - (B) LLL
 - (C) LWL
 - (D) LOA

If choice A is selected set score to 1.

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

If choice D is selected set score to 1.

8. The next-to-last shot of an anchor cable is usually painted _____.
- (A) white
 - (B) red
 - (C) international orange
 - (D) yellow

If choice D is selected set score to 1.

9. You are operating an ocean-going vessel of 322 gross tons. If your vessel does NOT have an oily-water separator then she must have a fixed piping system to discharge oily ballast to a shore facility. This system must include _____.
- (A) at least two outlets accessible from the weather deck
 - (B) a means to stop each pump near the discharge outlet
 - (C) containment capacity for at least 5 gallons at the tank vents
 - (D) at least two pumps that may be put in line

If choice B is selected set score to 1.

10. Which is a method used to make an eye in a bight of line where it cannot be spliced?
- (A) braiding
 - (B) seizing
 - (C) plaiting
 - (D) serving

If choice B is selected set score to 1.

11. What should look-outs report?

- (A) Discolored water
- (B) Shoals
- (C) Floating objects
- (D) All of the above

If choice D is selected set score to 1.

12. What is NOT a form used by ice support services to disseminate information?

- (A) Ice Forecasts
- (B) Ice Bulletins
- (C) Ice Outlooks
- (D) Ice Analyses

If choice B is selected set score to 1.

13. You are preparing to load fuel oil on a vessel of 300 gross tons constructed after June 30, 1974. Before loading, you must check that the fuel oil tank vents _____.

- (A) have containment capacity for at least one half barrel
- (B) are opened and the flame screen replaced
- (C) have a fire extinguisher within the immediate area
- (D) are not obstructed by on-deck cargo

If choice A is selected set score to 1.

14. Under identical load conditions, nylon, when compared with natural fiber line, will stretch _____.

- (A) less and have greater strength
- (B) more and have greater strength
- (C) more and have less strength
- (D) less and have less strength

If choice B is selected set score to 1.

15. A tank vessel transferring non-flammable hazardous cargo in bulk must display warning signs. These signs must _____.

- (A) indicate "NO SMOKING"
- (B) be visible from both sides and from forward and aft
- (C) be displayed only while transferring cargo and fast to a dock
- (D) use black lettering on a white background

If choice D is selected set score to 1.

16. U.S. regulations require any tankship making a voyage of over 48 hours duration to conduct certain tests not more than 12 hours prior to leaving port. Which of the following must be tested to meet this requirement?

- (A) watertight door to the shaft alley
- (B) fire pump relief valve
- (C) means of communication between the bridge and engine room
- (D) emergency lighting system

If choice C is selected set score to 1.

17. Which statement is TRUE concerning the vessel's slipstream?

- (A) The propeller gives it a helical motion.
- (B) It has no effect on the steering of the vessel.
- (C) Its velocity is the same as that of the wake.
- (D) It has no effect on the rudder when the helm is amidships.

If choice A is selected set score to 1.

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

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

If choice A is selected set score to 1.

19. Which synthetic rope has the greatest breaking strength?

- (A) Polyglycine
- (B) Polypropylene
- (C) Polyethylene
- (D) Polyester

If choice D is selected set score to 1.

20. 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 vessel instantly
- (B) Reverse your engines
- (C) Reduce speed
- (D) Stop your engines

If choice D is selected set score to 1.

21. Which of the following describes a "whipping"?

- (A) turns of twine around a rope end
- (B) a U-bolt for securing a cargo whip to the winch drum
- (C) a messenger
- (D) a stopper for nylon line

If choice A is selected set score to 1.

22. 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.

23. Your ship is carrying hazardous cargo. During a daily inspection, you notice that some of the cargo has shifted and several cases are broken. You should FIRST _____.

- (A) call out the deck gang to jettison the cargo
- (B) make a determination of the seriousness of the breakage, and do what you think best
- (C) log the facts in the rough log and inform the Chief Mate later
- (D) report the facts immediately to the Master, who will make a decision

If choice D is selected set score to 1.

24. Most of your vessel's superstructure is forward. How will the vessel lie when drifting with no way on?

- (A) With the wind from abaft the beam
- (B) With the wind from ahead
- (C) With the wind off the port beam
- (D) With the wind off the starboard beam

If choice A is selected set score to 1.

25. 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) increase speed
- (C) use more left rudder
- (D) use more right rudder

If choice D is selected set score to 1.

26. How many turns of wire normally mark either side of the detachable link 45 fathoms from the anchor?

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

If choice C is selected set score to 1.

27. When must a proper look-out must be kept?

- (A) only when entering and leaving port
- (B) only between the hours of sunset and sunrise
- (C) only in fog
- (D) at all times

If choice D is selected set score to 1.

28. Metal plates that cover the top of the hawsepipe are called _____.

- (A) stop waters
- (B) footings
- (C) buckler plates
- (D) plugs

If choice C is selected set score to 1.

29. What is the purpose of a check valve?

- (A) Regulates liquid flow
- (B) Permits flow in one direction only
- (C) Passes liquid but not air
- (D) Passes air but not liquid

If choice B is selected set score to 1.

30. Which is the correct procedure for anchoring a small to medium size vessel in deep water?

- (A) Let the anchor fall off the brake right from the hawsepipe, but keep a slight strain on the brake.
- (B) Under power, back the anchor out until it is near, but clear, of the bottom before letting it fall.
- (C) Back the anchor slowly out of the hawsepipe a few feet, and then let it fall in the normal fashion.
- (D) Let the anchor fall free from the hawsepipe, but apply the brake at intervals to check the rate of fall.

If choice B is selected set score to 1.

- 31.** Your ship has loaded 6,000 barrels of gasoline, at a cargo temperature of 50°F, departing New Jersey bound for Florida. API gravity is 55°. The volume correction factor (VCF) is .0006. How many gallons would you expect to unload if the cargo temperature is 90°F at the discharge port?
- (A) 337,920
 - (B) 322,080
 - (C) 295,952
 - (D) 258,048

If choice D is selected set score to 1.

- 32.** When a boat turns broadside to heavy seas and winds, thus exposing the boat to the danger of capsizing, the boat has _____.
- (A) yawed
 - (B) trimmed
 - (C) broached
 - (D) pitched

If choice C is selected set score to 1.

- 33.** When the period of beam seas equals the natural rolling period of a vessel, what will most likely occur?
- (A) Excessive rolling
 - (B) Excessive yawing
 - (C) Excessive pitching
 - (D) No change should be evident

If choice A is selected set score to 1.

- 34.** What is the maximum weight the 30 ton capacity pedestal cranes shown in illustration D051DG can lift when married together in twin with the other pair of cranes at the opposite end of the hatch?
- (A) 90 tons
 - (B) 120 tons
 - (C) 30 tons
 - (D) 60 tons

If choice B is selected set score to 1.

35. You are drifting in a locale where there is no current. As a rule, your vessel will lie _____.

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

If choice B is selected set score to 1.

36. An icebreaker displaying a flag hoist which consists of the code letters "WO" (Whiskey Oscar) is indicating that _____.

- (A) the icebreaker is beset
- (B) the icebreaker is icebound
- (C) icebreaker support is commencing
- (D) icebreaker support is finished

If choice D is selected set score to 1.

37. If an electric cargo winch is being used to lift a draft of cargo and the engine room loses all power, which will occur?

- (A) An electromagnetic brake will hold the load where it is suspended.
- (B) A pawl, forced by a spring mechanism, will engage the teeth of the bull gear and hold the load.
- (C) The load will slowly lower to the deck under control of the drag of the winch motor.
- (D) The load will fall rapidly to the deck unless the foot brake is engaged.

If choice A is selected set score to 1.

38. Which agency is authorized to assist the Coast Guard in the inspection of vessels for the suitability of loading hazardous materials?

- (A) U.S. Navy explosive loading details
- (B) National Cargo Bureau, Inc.
- (C) American Bureau of Shipping
- (D) Environmental Protection Agency

If choice B is selected set score to 1.

39. You will load class 1.2 commercial explosives and need to construct a portable magazine. The magazine MUST _____.

- (A) be elevated with skids 10cm (3.9 inches) above the deck
- (B) be made of metal
- (C) have a hinged cover
- (D) be fastened with nails or screws

If choice A is selected set score to 1.

40. What are the health hazard ratings for a product of triethylbenzene?

- (A) 0,1,1
- (B) 1,1,1
- (C) 2,2,2
- (D) Unavailable

If choice B is selected set score to 1.

41. According to the Chemical Data Guide, the flash point for the grade B flammable liquid piperylene is _____.

- (A) -20°F
- (B) not available
- (C) 108°F
- (D) 43°C

If choice A is selected set score to 1.

42. What must access to a cargo pump room on a tank vessel carrying grades A, B, C or D liquid cargoes be?

- (A) from the open deck
- (B) only from areas equipped with power ventilation systems
- (C) at least 13.1 feet away from the galleys, living quarters or navigation spaces
- (D) isolated from any part of the vessel which normally contains sources of vapor ignition

If choice A is selected set score to 1.

43. What is required of an access to a cargo pump room in a tank vessel carrying grade D liquid cargo?

- (A) isolated from sources of vapor ignition
- (B) away from galleys, living quarters, or navigation spaces
- (C) only from areas equipped with power ventilation systems
- (D) from the open deck

If choice D is selected set score to 1.

44. A re-inspection of the vessel shall be made between which of the following months while the Certificate of Inspection is valid?

- (A) 8 - 12 months
- (B) 10 - 12 months
- (C) 10 - 14 months
- (D) 12 - 14 months

If choice C is selected set score to 1.

45. When bunkering is complete, the hoses should be _____.

- (A) cleaned internally with a degreaser
- (B) drained, blanked off, and stored securely
- (C) stowed vertically and allowed to drain
- (D) washed out with hot soapy water

If choice B is selected set score to 1.

46. 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) remain constant
- (B) increase
- (C) decrease
- (D) stop

If choice B is selected set score to 1.

47. A precaution you should take before bunkering is to _____.

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

If choice B is selected set score to 1.

48. The pipe used to connect two separate piping systems on a tank vessel is known as a _____.

- (A) transfer
- (B) connection
- (C) junction
- (D) crossover

If choice D is selected set score to 1.

49. The most likely location for a liquid cargo fire to occur on a tanker would be _____.

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

If choice D is selected set score to 1.

50. 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 warning signs
- (C) With pressure-vacuum relief valves
- (D) With gooseneck vents

If choice A is selected set score to 1.

51. Which of the following grade classifications is assigned to Camphor oil?

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

If choice C is selected set score to 1.

52. The vapor pressure of a substance _____.

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

If choice D is selected set score to 1.

53. The liquid-filled PV breaker has acted to relieve a vacuum in a tank. What action must be taken in regards to the PV-breaker before continuing operations?

- (A) Refill the breaker with liquid.
- (B) Check to make certain that it has reset itself.
- (C) Install a new rupture disc.
- (D) Manually reset the vacuum side of the breaker.

If choice A is selected set score to 1.

54. Which statement about entering into a tank which has been sealed for a long time is TRUE?

- (A) The tank need not be tested for oxygen content if it is ventilated for more than 24 hours.
- (B) The tank must be tested at frequent intervals to ensure that hazardous gasses have not regenerated.
- (C) The tank should be tested only once to ensure the oxygen content is at least 14% before entry.
- (D) If the oxygen content tests at less than 12% you should wear an approved gas mask.

If choice B is selected set score to 1.

55. What best describes for how long a gas-free test is good?

- (A) For the instant that it is made
- (B) Until valves in line with the tank or compartment are reopened
- (C) Until changes in temperature or pressure affect the vapor content in the space
- (D) For as long as is indicated on the gas-free certificate

If choice A is selected set score to 1.

56. Safety equipment on board vessels must be approved by the _____.

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

If choice B is selected set score to 1.

57. Annex V to MARPOL 73/78 contains requirements pertaining to the discharge into the marine environment of _____.

- (A) noxious liquid substances
- (B) garbage
- (C) oil
- (D) None of the above

If choice B is selected set score to 1.

58. What is the name of the mark indicated by the letter F in illustration D003DG below?

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

If choice B is selected set score to 1.

59. The maximum draft to which a vessel can legally be submerged is indicated by the _____.

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

If choice B is selected set score to 1.

60. A load line is assigned by _____.

- (A) the U.S. Department of Energy
- (B) the U.S. Customs
- (C) a recognized classification society approved by the U.S. Coast Guard
- (D) the U.S. Army Corps of Engineers

If choice C is selected set score to 1.

61. Your oceangoing vessel is required to have a waste management plan. This plan must be in writing and describe procedures for _____.

- (A) collecting and discharging garbage
- (B) segregating the different types of shipboard waste
- (C) reducing the amount of shipboard waste
- (D) disposing waste from marine sanitation devices

If choice A is selected set score to 1.

62. Under the Pollution Regulations, which action is required when you dump garbage in to the sea?

- (A) No action is required if you are more than 25 miles from land and no plastic materials are dumped.
- (B) keep a record for two years
- (C) notify the U.S. Coast Guard
- (D) make an entry in the Official Logbook

If choice B is selected set score to 1.

63. 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.

64. At what distance from shore may plastic material may be thrown overboard from a vessel?

- (A) 12 miles from shore
- (B) 25 miles from shore
- (C) 3 miles from shore
- (D) None of the above are correct.

If choice D is selected set score to 1.

65. 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.

66. To determine the number of inflatable liferafts required on a vessel, you should check the _____.

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

If choice B is selected set score to 1.

67. A re-inspection of the vessel shall be made between which of the following months while the Certificate of Inspection is valid?

- (A) 8 - 12 months
- (B) 10 - 12 months
- (C) 10 - 14 months
- (D) 12 - 14 months

If choice C is selected set score to 1.

68. According to 33 CFR, on board which type of vessel described below is required to maintain Part II (Cargo/Ballast Operations) of the Oil Record Book?

- (A) An oil tanker of 150 gross tons and above on domestic voyages only.
- (B) A non-tanker that carries more than 200 cubic meters of oil in bulk.
- (C) Any oil tanker of 100 gross tons and above.
- (D) A ship of 150 gross tons and above, other than an oil tanker.

If choice B is selected set score to 1.

69. When a vessel is entering or leaving a port, a record of engine speeds is kept in the _____.

- (A) engine rough log
- (B) deck rough log
- (C) bell book
- (D) Official Logbook

If choice C is selected set score to 1.

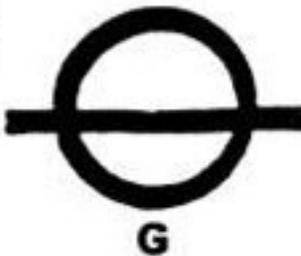
70. What is the period of validity of a Safety Management Certificate?

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

If choice A is selected set score to 1.

D003DG

A 

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