

U.S.C.G. Merchant Marine Exam
Master/Chief Mate Offshore Supply Vessels
Q200 Deck General
(Sample Examination)

Choose the best answer to the following Multiple Choice Questions.

1. What would NOT require that a detailed report of the release of hazardous cargo be made to the Department of Transportation?
- (A) Heavy weather causes damage to packages of a hazardous liquid that is subsequently pumped out at sea through the bilge pumping system.
 - (B) The valve on an empty portable tank that contained acetone is accidentally opened and some of the residue escapes to the open sea.
 - (C) Part of your deck cargo of five gallon cans of paint is damaged and leaking so you jettison them to eliminate the fire hazard.
 - (D) A carboy of nitric acid is broken on deck while loading and is flushed overboard with no injury or damage.

If choice C is selected set score to 1.

2. A device fitted over the discharge opening on a relief valve consisting of one or two woven wire fabrics is called a flame _____.
- (A) restrictor
 - (B) screen
 - (C) stopper
 - (D) filter

If choice B is selected set score to 1.

3. When clearing a vessel for a foreign voyage, the original crew list is duly certified by proper authority. In a U.S. port, this authority is the U.S. _____.
- (A) Immigration Service
 - (B) Customs
 - (C) Coast Guard
 - (D) Public Health Service

If choice B is selected set score to 1.

4. The Master of a vessel may tender a Notice of Readiness to the charterer when the vessel _____.
- (A) has completed the terms of the charter party
 - (B) is in all respects ready to load
 - (C) is in all respects ready to sail
 - (D) is safely moored or at a suitable anchorage

If choice B is selected set score to 1.

5. The proximity of pack ice may be indicated by _____.

- (A) glare on clouds on the horizon
- (B) changes in seawater salinity
- (C) icebergs
- (D) changes in air temperature

If choice A is selected set score to 1.

6. You are in the North Sea, which is a special area listed in ANNEX V of MARPOL. How many miles from land must you be to throw broken plywood dunnage over the side?

- (A) 25 nm
- (B) 12 nm
- (C) 6 nm
- (D) Must be retained aboard

If choice D is selected set score to 1.

7. The moisture equilibrium chart can be used to determine the _____.

- (A) temperature at which moisture equilibrium will occur in a cargo hold containing a hygroscopic cargo
- (B) enthalpy of the air surrounding a hydroscopic cargo which is in moisture equilibrium with the cargo
- (C) absolute moisture content of the air surrounding a hygroscopic cargo when moisture equilibrium exists
- (D) dew point temperature that the air surrounding a hygroscopic commodity will have when in moisture equilibrium with that commodity

If choice D is selected set score to 1.

8. Which statement about a tunnel bow thruster is TRUE?

- (A) It is fully effective at speeds up to about six knots.
- (B) It will allow you to hold a position when the current is from astern.
- (C) It provides lateral control without affecting headway.
- (D) It can be used to slow the ship in addition to backing down.

If choice C is selected set score to 1.

9. The Officers Competency Certificates Convention of 1936 applies to all of these vessels operating seaward of the boundary line EXCEPT a/an _____.

- (A) offshore supply vessel over 200 gross tons
- (B) uninspected towing vessel of less than 200 gross tons
- (C) inspected towing vessel of 305 gross tons
- (D) passenger vessel of 295 gross tons

If choice B is selected set score to 1.

10. You are docking a vessel starboard side to with the assistance of two tugs. You are attempting to hold the vessel off by operating both tugs at right angles to the vessel and at full power. You must ensure that _____.

- (A) the bow doesn't close the dock first
- (B) the bow closes the dock first
- (C) steerageway is not taken off
- (D) the ship has no headway at the time

If choice D is selected set score to 1.

11. Which is NOT a part of an anchor?

- (A) Bill
- (B) Crown
- (C) Devil's claw
- (D) Palm

If choice C is selected set score to 1.

12. The heel block is located _____.

- (A) at the cargo hook
- (B) near the midships guy
- (C) near the spider band
- (D) at the base of the boom

If choice D is selected set score to 1.

13. On a sea going towing vessel of 150 gross tons, there are six (6) seamen in the deck crew. How many certificated able seamen are required if the voyage is over 600 miles?

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

If choice D is selected set score to 1.

14. When hugging a bank in a narrow channel, you should take precautions against _____.

- (A) bank suction, squat and the effects of vessels passing close aboard
- (B) striking underwater obstructions close to the bank
- (C) clogged sea chests, plugged sea strainers and overheated machinery
- (D) All of the above

If choice D is selected set score to 1.

15. Due to the nature of a vessel's construction for a particular trade, it does not fully comply with the provisions of SOLAS. Where will this be indicated?

- (A) On the Exemption Certificate
- (B) Nowhere; the vessel must comply to engage in international trade.
- (C) On the face of the Certificate of Inspection
- (D) On the reverse of the particular SOLAS certificate affected

If choice A is selected set score to 1.

16. Most liquified gas cargoes are flammable, and are carried at or close to their boiling point. What will happen if they are released into the atmosphere?

- (A) freeze and possibly cause structural damage
- (B) burn, if it's within its flammable range and has an ignition source
- (C) result in sloshing in the tank which could make the ship unstable
- (D) allow air to enter the system causing polymerization

If choice B is selected set score to 1.

17. Commercial ships or other persons or agencies requiring the assistance of Canadian Coast Guard icebreakers should first contact _____.

- (A) Ice Sarnia
- (B) the icebreaker assigned to the area
- (C) the Ice Navigation Center
- (D) the Canadian Coast Guard

If choice A is selected set score to 1.

18. The preferred type of pollution control for oil spills on the water is(are) _____.

- (A) booms
- (B) skimmers
- (C) straw
- (D) chemical dispersants

If choice A is selected set score to 1.

19. Which will most likely occur when entering shallow water?

- (A) An increase in speed will occur.
- (B) The vessel's list will change.
- (C) The vessel's trim will change.
- (D) Rudder action will become more effective.

If choice C is selected set score to 1.

20. What is a wet cargo?

- (A) A canned or bottled liquid such as beer
- (B) A cargo particularly susceptible to damage by moisture
- (C) A liquid cargo carried in the deep tanks
- (D) A cargo that contains hygroscopic moisture

If choice A is selected set score to 1.

21. You Your vessel must moor port side to a berth limited by vessels ahead and astern using a single tug. You are stemming a slight current and there is a light breeze of the dock. Your tug should be made up to the vessel's _____.

- (A) waist
- (B) quarter
- (C) stern on a hawser
- (D) bow

If choice D is selected set score to 1.

22. You are using the anchor to steady the bow while maneuvering. You have the proper scope of anchor cable when the _____.

- (A) bow is held in position with the engines coming slowly ahead
- (B) anchor is just touching the bottom
- (C) scope is not more than 5 times the depth of the water
- (D) cable enters the water at an angle between 60° and 85° from the horizontal

If choice A is selected set score to 1.

23. Which spaces are required to be segregated from cargo tanks carrying grades A, B, C, or D cargoes?

- (A) Enclosed deck spaces
- (B) Cofferdams
- (C) Navigation spaces
- (D) Pump rooms

If choice C is selected set score to 1.

24. 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.

25. 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) pitchpoled

If choice C is selected set score to 1.

26. As the propeller turns, voids are formed on the trailing and leading edges of the propeller blades causing a loss of propulsive efficiency, pitting of the blades, and vibration. These voids are known as _____.

- (A) advance
- (B) slip
- (C) edging
- (D) cavitation

If choice D is selected set score to 1.

27. The part of an anchor which takes hold on the bottom is the _____.

- (A) arm
- (B) fluke
- (C) base
- (D) stock

If choice B is selected set score to 1.

28. When anchored, increasing the scope of the anchor chain normally serves to _____.

- (A) prevent fouling of the anchor
- (B) reduce strain on the windlass
- (C) decrease swing of the vessel
- (D) prevent dragging of the anchor

If choice D is selected set score to 1.

29. You are loading at port A, governed by the summer load line mark, for a voyage to port B, governed by the winter mark. The fresh water allowance is 10", and the hydrometer reads 1.020. Which statement is TRUE?

- (A) You may load to the summer mark plus 2 inches if you will be at the winter mark when entering the winter zone.
- (B) You may not load beyond the summer mark plus 8 inches brackish water allowance.
- (C) You may not load beyond the winter mark except for 2 inches brackish water allowance.
- (D) You may not load beyond the summer mark and must be at the winter mark upon arrival at port B.

If choice A is selected set score to 1.

30. After casting off moorings at a mooring buoy in calm weather, you should _____.

- (A) go full ahead on the engine(s)
- (B) go half ahead on the engines and pass upstream of the buoy
- (C) back away a few lengths to clear the buoy and then go ahead on the engines
- (D) go half ahead on the engines and put the rudder hard right

If choice C is selected set score to 1.

31. The Emergency Position Indicating Radio beacon on an OSV vessel must be stowed _____.

- (A) so that it will float free if the vessel sinks
- (B) in an approved bracket
- (C) in an inside passageway
- (D) so that it is accessible from the pilothouse of the vessel

If choice A is selected set score to 1.

32. Generally, you can best keep a vessel under steering control when the vessel has _____.

- (A) no way on, with engines full ahead
- (B) sternway
- (C) headway
- (D) no way on, with engines stopped

If choice C is selected set score to 1.

33. Which measure should NOT be taken to reduce the pounding of a vessel in a head sea?

- (A) Alter course.
- (B) Add ballast forward.
- (C) Reduce speed.
- (D) Add ballast in the after peak.

If choice D is selected set score to 1.

34. When loading a container vessel, the operation is basically that of vertical loading. The important factors to be considered when loading containers are the port of discharge, and which of the following?

- (A) weight, and refrigeration
- (B) sweat, and weight
- (C) crushability, and inherent vice
- (D) available dunnage, and chocking

If choice A is selected set score to 1.

35. What is NOT an indication that pack ice may be nearby?

- (A) The presence of icebergs
- (B) Ice blink
- (C) Sighting a walrus in the Arctic
- (D) Absence of wave motion

If choice A is selected set score to 1.

36. On a vessel of 125,000 GT on an international voyage, how many international shore connection flange(s) must be provided?

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

If choice A is selected set score to 1.

37. The load chart of a crane enables the operator to combine the load radius with boom length to determine the _____.

- (A) allowable load
- (B) maximum counter weight required
- (C) minimum horsepower required
- (D) hoist rope strength

If choice A is selected set score to 1.

38. Your containership has a container displaying a hazardous cargo placard. The placard has the number 2224 on it. This indicates that it is carrying what cargo?

- (A) Propadiene, inhibited
- (B) Benzotrile
- (C) Acrylic acid
- (D) Hexanol

If choice B is selected set score to 1.

39. You must load as much of a large shipment of case goods as possible into a hold which has 24,400 cubic feet of space. Each case measures 2 feet by 2 feet by 4 feet and weighs 448 pounds. If you allow for broken stowage of 15%, how many long tons can be loaded?

- (A) 351
- (B) 54
- (C) 207
- (D) 259

If choice D is selected set score to 1.

40. 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.

41. A tanker is loaded with 5,000 barrels of petroleum. The cargo was loaded at a temperature of 70°F, and the coefficient of expansion is .0004. What is the net amount in barrels of cargo loaded?

- (A) 4800
- (B) 4980
- (C) 5020
- (D) 5200

If choice B is selected set score to 1.

42. Which statement is TRUE of centrifugal pumps aboard tankers?

- (A) They are more expensive than reciprocating pumps.
- (B) They are used for stripping pumps.
- (C) They are used for stripping pumps.
- (D) They are gravity-fed.

If choice D is selected set score to 1.

43. Each hose used for transferring vapors must _____.

- (A) be capable of withstanding at least 2.0 psi vacuum without collapsing or constricting
- (B) be electrically continuous with a maximum resistance of ten thousand ohms
- (C) have a design burst pressure of at least 25 psig
- (D) All of the above

If choice D is selected set score to 1.

44. Open ullage holes in tanks which are not gas-free must be protected by _____.

- (A) PV valves
- (B) stop-check valves
- (C) flame screens
- (D) warning signs

If choice C is selected set score to 1.

45. A gas-free certificate would usually be issued by a(n) _____.

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

If choice B is selected set score to 1.

46. Each personal flotation device light on an OSV that has a non-replacement power source must be replaced _____.

- (A) every six months after initial installation
- (B) every 12 months after initial installation
- (C) every 24 months after initial installation
- (D) on or before the expiration date of the power source

If choice D is selected set score to 1.

47. The normal equipment of every rescue boat shall include _____.

- (A) compass
- (B) one can opener
- (C) one 50 meter line
- (D) All of the above

If choice A is selected set score to 1.

48. What is the name of the mark indicated by the letter E in illustration D003DG below?

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

If choice C is selected set score to 1.

49. What is the period of validity of the SOLAS required Cargo Ship Safety Construction Certificate?

- (A) 12 months
- (B) 24 months
- (C) 48 months
- (D) 60 months

If choice D is selected set score to 1.

50. Which entry on a dangerous cargo manifest concerning the classification of a cargo is NOT correct?

- (A) Division 3.1
- (B) Class 8
- (C) Division 2.3
- (D) All of the above are incorrect

If choice A is selected set score to 1.

51. Which statement about the dangerous cargo manifest, carried on a ship, is TRUE?

- (A) The manifest must be kept in a designated holder on or near the bridge.
- (B) The type of label(s) required for each cargo must be indicated.
- (C) The manifest must be made up by the Master or other designated ship's officer.
- (D) Shipments of hazardous and non-hazardous cargo may be listed on the manifest if they are destined for the same consignee.

If choice A is selected set score to 1.

52. After an IOPP Certificate is issued to an inspected vessel, how many other surveys of the vessel's pollution prevention equipment are conducted during the period of validity of the certificate?

- (A) None
- (B) One
- (C) Two
- (D) Three

If choice D is selected set score to 1.

53. What condition must be met during a stability test on an inspected vessel?

- (A) all dunnage, tools, and extraneous items are secured
- (B) the vessel must be moored snugly
- (C) each tank must be partially full to show it does not leak
- (D) water under vessel must be deep enough to prevent grounding

If choice D is selected set score to 1.

54. Which of the following applies in determining if all requirements of the Declaration of Inspection are met for oil transfer operations prior to bunkering from a shoreside facility?

- (A) vessel and bunker facility must be inspected by a representative of the Coast Guard Captain of the Port
- (B) the bunker facility must be inspected by the designated person-in-charge of the vessel and vice versa for the vessel
- (C) vessel and bunker facility must be independently inspected by the designated persons-in-charge
- (D) the vessel is responsible to provide an inspected oil hose

If choice C is selected set score to 1.

55. Which list is NOT required to be provided as part of the appendices of the Shipboard Oil Pollution Emergency Plan?

- (A) A list of agencies or officials in regularly visited ports.
- (B) A list of personnel duty assignments.
- (C) A list specifying who will be responsible for informing the parties listed and the priority in which they must be notified.
- (D) A list of agencies or officials of Coastal State Administrators responsible for receiving and processing incident reports.

If choice B is selected set score to 1.

56. According to U.S. regulations, normally, where are manholes in LFG located?

- (A) there are no requirements in the regulation
- (B) in the expansion trunk of each tank
- (C) above the weather deck
- (D) in the ends of each tank

If choice C is selected set score to 1.

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

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

If choice A is selected set score to 1.

58. A mariner whose credential has been revoked shall not be issued another credential without which of the following?

- (A) taking a new examination
- (B) approval of an administrative law judge
- (C) approval of the Officer-in-Charge, Marine Inspection
- (D) approval of the Commandant

If choice D is selected set score to 1.

59. When paying off seamen in a foreign port, where a United States consul is not available, the release must be executed by the seamen and the _____.

- (A) local port authority representative
- (B) Master of the vessel
- (C) ship's union delegate
- (D) representative of the foreign country

If choice B is selected set score to 1.

60. When may a seaman on a vessel engaged in foreign trade be paid before earning the wages?

- (A) Wages equivalent to three days base wage may be advanced upon arrival in a foreign port.
- (B) Wages up to fifty percent of the seaman's base wage maybe advanced upon proof of serious family illness.
- (C) The advance of wages is at the discretion of the master; however, a seaman cannot be in an overpaid status at signoff.
- (D) The seaman may only draw an advance on earned wages.

If choice D is selected set score to 1.

61. A seaman deserts the vessel in a foreign port. What should the Master do with any of the deserter's personal effects remaining on board?

- (A) Transfer them to the appropriate district court of the U.S. at the end of the voyage.
- (B) Donate them to a local charity upon return to the United States.
- (C) Sell them at auction and deposit the money in the ship's morale or welfare fund.
- (D) Inventory them, make an appropriate entry in the Official Logbook and dispose of them at sea.

If choice A is selected set score to 1.

62. 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.

63. 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.

64. Preparation of muster lists and signing of same is the responsibility of the _____.

- (A) Chief Officer of the vessel
- (B) owner of the vessel
- (C) United States Coast Guard
- (D) Master of the vessel

If choice D is selected set score to 1.

65. A maritime lien may be placed against _____.

- (A) the vessel only
- (B) a vessel, cargo, or freight
- (C) any assets that a ship's owner may have
- (D) objects that are fixed and immovable, such as wharves

If choice B is selected set score to 1.

66. One of the requirements for a general average act is _____.

- (A) no imminent peril
- (B) a successful venture
- (C) no losses
- (D) All of the above

If choice B is selected set score to 1.

67. 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.

68. When relieving the helm, the new helmsman should know which of the following before assuming the watch?

- (A) gyro error
- (B) maximum rudder angle previously used
- (C) course per magnetic steering compass
- (D) variation

If choice C is selected set score to 1.

69. 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.

70. Which statement is FALSE concerning precautions during fueling operations?

- (A) Fuel tanks should be topped off with no room for expansion.
- (B) All windows, doors, hatches, etc. should be closed.
- (C) A fire extinguisher should be kept nearby.
- (D) All engines, motors, fans, etc. should be shut down when fueling.

If choice A is selected set score to 1.

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