

U.S.C.G. Merchant Marine Exam

Master Less than 100 Gross Registered Tons

Q348 Deck Safety

(Sample Examination)

Choose the best answer to the following Multiple Choice Questions.

1. If the situation arose where it became necessary to tow a disabled vessel, which statement is TRUE concerning the towing line?
- (A) The towing line should be taut at all times between the vessels.
 - (B) There should be a catenary so the line dips into the water.
 - (C) The towing line between the two vessels should be clear of the water.
 - (D) None of the above.

If choice B is selected set score to 1.

2. Which action will affect the trim of a vessel?

- (A) Moving a weight forward
- (B) Moving high weights lower
- (C) Adding weight at the tipping center
- (D) Removing weight at the tipping center

If choice A is selected set score to 1.

3. When collecting condensation for drinking water, which is TRUE?

- (A) A sponge used to mop up and store condensation must be kept salt free
- (B) It should be strained through a finely woven cloth
- (C) Only condensation on the bottom of the canopy should be collected
- (D) Chlorine tablets should be used to make it drinkable

If choice A is selected set score to 1.

4. When is a lookout permitted to leave his station?

- (A) Only when properly relieved
- (B) At the end of the watch
- (C) 15 minutes before the end of the watch
- (D) At any time

If choice A is selected set score to 1.

5. You suspect that a crewmember has fallen overboard during the night and immediately execute a Williamson turn. What is the primary advantage of this maneuver under these circumstances?

- (A) The turn enables you to reverse course in the shortest possible time.
- (B) You will be on a reciprocal course and nearly on the track-line run during the night.
- (C) You have extra time to maneuver in attempting to close in on the man for rescue.
- (D) The turn provides the maximum coverage of the area to be searched.

If choice B is selected set score to 1.

6. A concentration of weight has been shifted inboard to the center line of the vessel. Generally speaking, what effect will this have on the vessel?
- (A) The vessel's rolling period will remain the same
 - (B) The vessel's rolling period will decrease
 - (C) The vessel's rolling period will increase
 - (D) The vessel's rolling period will be rapid

If choice B is selected set score to 1.

7. The carburetor is placed on the engine to _____.
- (A) distribute the gasoline
 - (B) mix the fuel and air
 - (C) assist in priming the cylinders
 - (D) properly lubricate the engine

If choice B is selected set score to 1.

8. Tonnage openings must be closed by means of _____.
- (A) steel hatch boards
 - (B) press board
 - (C) wooden hatch boards
 - (D) steel plates

If choice D is selected set score to 1.

9. A deck-stowed 40-foot container is giving off smoke, and one end is discolored from heat. The cargo is valuable and easily damaged by water. You want to extinguish the fire without further damage if possible. What action should you take?
- (A) Flood the container with water and disregard any cargo damage as the fire threatens the entire vessel.
 - (B) Cool the exterior of the container with water and close all vents; then keep it cooled until it can be off-loaded.
 - (C) Connect a portable line from the ship's fixed system and discharge CO₂ into the container.
 - (D) Pierce the container and discharge 6 or more portable CO₂'s then add more CO₂ hourly.

If choice D is selected set score to 1.

10. The outlet at a fire hydrant may be positioned anywhere from horizontal to pointing in which direction(s)?
- (A) 45° upward
 - (B) Vertically downward
 - (C) Vertically upward
 - (D) All of the above

If choice B is selected set score to 1.

11. An aluminum powder fire is in which fire classification category?

- (A) Class A
- (B) Class B
- (C) Class C
- (D) Class D

If choice D is selected set score to 1.

12. On a small passenger vessel, 58 feet in length, carrying 52 passengers the fire pump shall have a minimum pumping capacity of how many gallons per minute?

- (A) 50 gallons per minute
- (B) 10 gallons per minute
- (C) 100 gallons per minute
- (D) 25 gallons per minute

If choice A is selected set score to 1.

13. What is a CORRECT reply to a pilot's request, "How's your head"?

- (A) "Checked"
- (B) "Steady"
- (C) "Eased to 10° rudder"
- (D) "Passing 50°"

If choice D is selected set score to 1.

14. What is the function of the bypass valve on the self-contained breathing apparatus?

- (A) The valve reduces the high pressure in the bottle to about 3 psi above atmospheric pressure.
- (B) The valve opens in excessive heat to release the oxygen in the bottle and prevent the bottle from exploding.
- (C) In the event of a malfunction in the equipment, the valve can be operated manually to give the wearer air.
- (D) When pressure in the apparatus exceeds 7 psi above atmospheric pressure, the valve opens to release pressure.

If choice C is selected set score to 1.

15. For a vessel inclined by the wind, multiplying the buoyant force by the horizontal distance between the lines of action of the buoyant and gravity forces gives which information?

- (A) The transverse moment
- (B) The vertical moment
- (C) The longitudinal moment
- (D) The righting moment

If choice D is selected set score to 1.

16. In general, how often are sanitary inspections of passenger and crew quarters made aboard passenger vessels in river service?

- (A) Once each day
- (B) Once each week
- (C) Once each month
- (D) Once each trip

If choice C is selected set score to 1.

17. For the purpose of training and drills, if reasonable and practicable, how frequently should rescue boats be launched with their assigned crew?

- (A) Once a week
- (B) Once a month
- (C) Once a year
- (D) Twice a year

If choice B is selected set score to 1.

18. The operator of the ship's radiotelephone, if the radiotelephone is carried voluntarily, must hold at least which of the following?

- (A) A restricted radiotelephone operator permit
- (B) A mate's license
- (C) A seaman's document
- (D) A second-class radio operator's license

If choice A is selected set score to 1.

19. If an inflatable liferaft is overturned, it may be righted by which action?

- (A) Filling the stabilizers on one side with water
- (B) Standing on the inflating cylinder and pulling on the straps on the underside of the raft
- (C) Releasing the CO2 cylinder
- (D) Pushing up from under one end

If choice B is selected set score to 1.

20. You have taken another vessel in tow at sea. Which is an indicator that the towing speed is too fast?

- (A) The catenary comes clear of the water
- (B) The towed vessel goes "in irons"
- (C) The vessels are not in step
- (D) The tow line feels like it is "jumping" when touched

If choice A is selected set score to 1.

21. Which is a requirement for each small passenger vessel that operates on the high seas, or beyond 3 miles from the coastline of the Great Lakes having a Category 1 406 MHz EPIRB?

- (A) The EPIRB is in good operating condition and is stowed near its charger
- (B) The EPIRB is protected against all physical hazards
- (C) The EPIRB will float free and clear of a sinking vessel and automatically activate
- (D) All of the above

If choice C is selected set score to 1.

22. Foam extinguishes a fire mainly by _____.

- (A) cooling
- (B) chemical action
- (C) smothering
- (D) inerting the air

If choice C is selected set score to 1.

23. An important step in fighting any electrical fire is to take which action?

- (A) Stop the vessel
- (B) De-energize the circuit
- (C) Stop ventilation
- (D) Apply water to extinguish the fire

If choice B is selected set score to 1.

24. Normally, potable water systems are connected directly to the _____.

- (A) freshwater sanitary system
- (B) fire-main system
- (C) potable water tank
- (D) feed-water system

If choice C is selected set score to 1.

25. Which action should be taken once fueling has been completed?

- (A) All hatches should be opened and all compartments should be ventilated
- (B) Open the fuel line and drain a small amount of gasoline into the bilge to clear the line of sediment
- (C) The fuel tank fill pipe should be left open to allow vapors to vent from the tank
- (D) The engine should be started immediately to prevent vapor lock in the fuel line

If choice A is selected set score to 1.

26. Which statement is TRUE concerning the "flash point" of a substance?

- (A) It is the temperature at which a substance, when ignited, will continue to burn.
- (B) It is the temperature at which a substance will spontaneously ignite.
- (C) It is the temperature at which the released vapors will fall within the explosive range.
- (D) It is lower than the ignition temperature.

If choice D is selected set score to 1.

27. How should the number "9" be pronounced when spoken on the radiotelephone?

- (A) NUM-BER-NINE
- (B) NO-VAY-NINER
- (C) OK-TOH-NINE
- (D) NEW-MER-AL-NINER

If choice B is selected set score to 1.

28. What is the signal to guide vessels in distress, indicating, "This is the best place to land"?

- (A) Horizontal motion of a white flag
- (B) The letter K in Morse code given by light
- (C) Firing of a white star signal
- (D) The code flag S as a hoist

If choice B is selected set score to 1.

29. When must a dry chemical fire extinguisher be recharged?

- (A) After each use
- (B) When the air temperature exceeds 90°F
- (C) Every 6 months
- (D) Every 12 months

If choice A is selected set score to 1.

30. Vessels operating in warm water whose routes are restricted to 20 miles from a harbor of safe refuge shall carry life floats or buoyant apparatus. Which is the survival craft requirement? (small passenger vessel regulations)

- (A) The vessel have survival craft to accommodate 25% of all persons on board
- (B) The vessel have survival craft to accommodate 50% of all persons on board
- (C) The vessel have survival craft to accommodate 75% of all persons on board
- (D) The vessel have survival craft to accommodate 100% of all persons on board

If choice B is selected set score to 1.

31. Vessels in ocean service shall carry which item? (small passenger vessel regulations)

- (A) Life floats for 50% of all persons on board
- (B) Sufficient inflatable buoyant apparatus for all persons on board
- (C) Life jackets for 50% of all persons on board
- (D) Buoyant apparatus for all persons on board

If choice B is selected set score to 1.

32. A vessel can be termed as either tender or stiff in relation to its rolling period. Which of the following would cause a vessel to be tender?

- (A) The ship has been loaded with minimal weight in the upper decks
- (B) The ship has excessive weight down low and is trimmed by the stern
- (C) The ship has been loaded with excessive weight in the upper decks
- (D) The ship has excessive weight down low and is trimmed by the head

If choice C is selected set score to 1.

33. () You are at sea and have received a General Emergency message announcing the outbreak of war in Europe. You are directed to comply with the instructions in NGA (NIMA) PUB 117, Chapter Eight. Which statement is TRUE?

- (A) You should attempt to submit an AMVER report to NSA.
- (B) You should only enter a port in the danger zone during hours of darkness.
- (C) If on a coastwise voyage along the east coast of the U.S., you should put into the nearest port.
- (D) When over 200 miles from a port in the danger zone, you should not darken ship.

If choice A is selected set score to 1.

34. When you hear three short blasts on the ship's whistle and the same signal on the general alarm bells, which action should you take?

- (A) You are required to be at your liferaft, proceed there
- (B) You are dismissed from drills
- (C) You should point to the man overboard
- (D) You should start the fire pump

If choice B is selected set score to 1.

35. Which is TRUE of the spray of water in low-velocity fog?

- (A) It will have lesser range than high-velocity fog
- (B) It will have about the same range as high-velocity fog
- (C) It will have greater range than a solid stream
- (D) It will have greater range than high-velocity fog

If choice A is selected set score to 1.

36. The falls on gravity davits are required to be constructed from which material?

- (A) Manila
- (B) Nylon
- (C) Wire
- (D) All of the above

If choice C is selected set score to 1.

37. You have abandoned ship in rough weather. After picking up other survivors in your liferaft, what should you do next?

- (A) Prepare for the arrival of rescue units.
- (B) Top up the buoyancy tubes.
- (C) Decide on food and water rations.
- (D) Deploy the sea anchor

If choice D is selected set score to 1.

38. What does the term "beam of a vessel" refer to?

- (A) The width of the vessel
- (B) The molded depth of the vessel
- (C) The depth between decks
- (D) The internal cubic capacity

If choice A is selected set score to 1.

39. The total weight of cargo, fuel, water, stores, passengers and crew, and their effects, that a ship can carry, is known as which term?

- (A) Gross tonnage
- (B) Deadweight
- (C) Loaded displacement
- (D) Bale cubic

If choice B is selected set score to 1.

40. According to the Lifesaving regulations in Subchapter W, fire and abandon ship drills must be held within 24 hours of leaving port if the percentage of the crew that has not participated in drills aboard that particular vessel in the prior month exceeds which percentage?

- (A) 5%
- (B) 10%
- (C) 25%
- (D) 40%

If choice C is selected set score to 1.

41. An aircraft has indicated that he wants you to change course and follow him. You cannot comply because of an emergency on board. Which signal should you make?

- (A) Make a round turn () and resume course
- (B) Send the Morse signal "N" by flashing light
- (C) Fire a red flare at night or a red smoke signal by day
- (D) Make an "S" turn (hard right then hard left) and resume course

If choice B is selected set score to 1.

42. When lowering lifeboats in heavy seas, a good practice is to rig frapping lines which way?

- (A) Rig with fore and aft as well as a thwartship lead
- (B) Rig the falls from the main deck of the vessel
- (C) Rig only on the after falls
- (D) Rig only on the forward falls

If choice A is selected set score to 1.

43. How are fusible link fire dampers operated?

- (A) The heat of a fire melting the link
- (B) A break-glass and pull-cable system
- (C) Electrical controls on the bridge
- (D) A mechanical arm outside the vent duct

If choice A is selected set score to 1.

44. Which statement describes the primary process by which fires are extinguished by dry chemical?

- (A) The stream of dry chemical powder cools the fire.
- (B) The powder forms a solid coating over the surface.
- (C) The dry chemical powder attacks the fuel and oxygen chain reaction.
- (D) The dry chemical smothers the fire.

If choice C is selected set score to 1.

45. Horizontal transverse motion of a vessel is known by which term?

- (A) Heave
- (B) Sway
- (C) Surge
- (D) Pitch

If choice B is selected set score to 1.

46. How many portable fire extinguishers are required for the machinery space of a small passenger vessel less than 100 GRT?

- (A) None are required
- (B) One B-I, C-I
- (C) One B-II, C-II
- (D) One B-II

If choice C is selected set score to 1.

47. Paints and solvents on a vessel should be _____.

- (A) stored safely at the work site until work is completed
- (B) returned to the paint locker after each use
- (C) stored in a suitable gear locker
- (D) covered at all times to protect from ignition sources

If choice B is selected set score to 1.

48. If a firefighting situation calls for low-velocity fog which action would you take?

- (A) Attach a low-velocity fog applicator with the nozzle shut down
- (B) Order the engine room to reduce pressure on the fire pump
- (C) Push the lever on an all-purpose fire nozzle all the way forward
- (D) Pull the lever on an all-purpose fire nozzle all the way back

If choice A is selected set score to 1.

49. What term indicates the outward curvature of the hull above the waterline?

- (A) Flare
- (B) Tumble home
- (C) Deadrise
- (D) Sheer

If choice A is selected set score to 1.

50. Which is the primary element to successfully rescuing a man overboard?

- (A) Good communication
- (B) A dedicated crew
- (C) Good equipment
- (D) Well-conducted drills

If choice D is selected set score to 1.