

U.S.C.G. Merchant Marine Exam

Master Near Coastal Less than 100 Gross Registered Tons

Q161 Deck Safety

(Sample Examination)

Choose the best answer to the following Multiple Choice Questions.

1. What is the minimum length of a life floats paddle on a small passenger vessel?

- (A) Three feet
- (B) Four feet
- (C) Five feet
- (D) Six feet

If choice B is selected set score to 1.

2. Which officer is responsible for the sanitary condition of the engineering department?

- (A) Chief Mate
- (B) First Assistant
- (C) Chief Engineer
- (D) Master

If choice C is selected set score to 1.

3. 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) 10 gallons per minute
- (B) 50 gallons per minute
- (C) 25 gallons per minute
- (D) 100 gallons per minute

If choice B is selected set score to 1.

4. When transferring survivors from an enclosed lifeboat to a rescue vessel, personnel on board the boat should take which action?

- (A) Remain seated inside and make the transfer one person at a time
- (B) Enter the water and swim over to the rescue vessel
- (C) Remove their life preservers to make it easier to climb on board the rescue vessel
- (D) Climb on top of the boat while waiting for their turn to transfer to the rescue vessel

If choice A is selected set score to 1.

5. Fires are grouped into what categories?

- (A) Flammable solids, liquids, and gases
- (B) Type 1, 2, 3, and 4
- (C) Combustible solids, liquids, and gases
- (D) Class A, B, C, and D

If choice D is selected set score to 1.

6. Normally, before taking drinking water on board in the U.S. or its possessions, the responsible person from the vessel should determine which information about the water source?
- (A) Is used by a city
 - (B) Is approved by the Public Health Service
 - (C) Has been treated with chlorine
 - (D) Is not from surface water

If choice B is selected set score to 1.

7. A wooden small passenger vessel operating on a coastwise route in cold water shall carry sufficient inflatable buoyant apparatus for which percentage of persons on board, or meet alternate requirements regarding collision bulkhead standards and the provision of life floats.(small passenger vessel regulations)
- (A) all persons aboard
 - (B) 67% of the total number of persons permitted on board.
 - (C) 50% of all persons aboard
 - (D) 30% of all persons aboard

If choice B is selected set score to 1.

8. When carrying out a parallel track search pattern, the course of the search units should normally be which of the following?
- (A) In the same direction as the anticipated drift
 - (B) Downwind
 - (C) Perpendicular to the line of anticipated drift
 - (D) In the opposite direction of the anticipated drift

If choice A is selected set score to 1.

9. One of the first actions to be taken by survivors when they have boarded an inflatable liferaft is to _____.
- (A) drink at least one can of water
 - (B) take an anti-seasickness pill
 - (C) open the pressure relief valve
 - (D) stream the sea anchor

If choice B is selected set score to 1.

10. What entry would NOT be shown on the V line of an AMVER report?
- (A) NURSE
 - (B) MD
 - (C) MT
 - (D) PA

If choice C is selected set score to 1.

11. Which is TRUE concerning hatches on small passenger vessels operating on exposed waters and exposed to the weather?

- (A) The hatch need not be watertight
- (B) The hatch must be watertight
- (C) The hatch must be open at all times
- (D) None of the above

If choice B is selected set score to 1.

12. Which statement is TRUE of a tender vessel?

- (A) It has a large GM.
- (B) It has a good transverse stability.
- (C) Its period of roll is long.
- (D) It has a very low center of gravity.

If choice C is selected set score to 1.

13. Which are the two points that act together to trim a ship?

- (A) Metacenter and LCG
- (B) LCF and LCB
- (C) VCG and LCG
- (D) LCG and LCB

If choice D is selected set score to 1.

14. The water pockets located on the underside of inflatable liferafts _____.

- (A) hold the freshwater required by regulation to be provided in the raft when packed
- (B) stow rainwater; these 4 spaces do not take up valuable space
- (C) act as stabilizers by filling with sea water as soon as the raft is inflated and upright
- (D) None of the above

If choice C is selected set score to 1.

15. On small passenger vessels how many supply and exhaust ducts are required in each enclosed space containing gasoline powered machinery or gasoline fuel tanks?

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

If choice C is selected set score to 1.

16. When should you first have any food or water after boarding a lifeboat or liferaft?

- (A) After 12 hours
- (B) After 24 hours
- (C) Within 48 hours
- (D) Some food and water should be consumed immediately and then not until 48 hours later.

If choice B is selected set score to 1.

17. What is the color of the signal flare sent up by a submarine about to surface due to an emergency condition?

- (A) Green
- (B) Yellow
- (C) White
- (D) Red

If choice D is selected set score to 1.

18. The exhaust pipe must be gas tight throughout its entire length otherwise _____.

- (A) the joint gaskets may be blown
- (B) carbon monoxide may enter the interior of the vessel
- (C) entry of air may cause vapor lock
- (D) bilge water may enter the exhaust pipe

If choice B is selected set score to 1.

19. U.S.C.G. approved buoyant work vests are considered to be items of safety equipment and may be worn by members of the crew. When can crewmembers wear these work vests?

- (A) In lieu of life preservers during fire drills
- (B) In lieu of life preservers during an actual emergency
- (C) When carrying out duties near a weather deck's edge
- (D) In lieu of life preservers during boat drills

If choice C is selected set score to 1.

20. What does the gross tonnage of a vessel indicate?

- (A) Volume in cubic feet
- (B) Draft in feet
- (C) Displacement in metric tons
- (D) Total weight including cargo

If choice A is selected set score to 1.

21. What is the minimum height of rails on passenger decks of ferryboats, excursion vessels, and vessels of a similar type? (small passenger vessel regulations)

- (A) 18 inches (.5 m) high
- (B) 24 inches (.6 m) high
- (C) 39-1/2 inches (1 m) high
- (D) 42 inches (1.1 m) high

If choice C is selected set score to 1.

22. What is the Ring life buoy requirement on your small passenger vessel that has a length of 28 feet?

- (A) A minimum of one life buoy not less than 24 inches in diameter
- (B) A minimum of one life buoy less than 20 inches in diameter
- (C) A minimum of two life buoys less than 20 inches in diameter
- (D) A minimum of two life buoys not less than 24 inches in diameter

If choice A is selected set score to 1.

23. Where do Signs of racking stresses generally appear on the vessel?

- (A) At the junction of the frames with the beams and floors
- (B) At the bow and stern shell frames and plating
- (C) On the garboard strake, at each side of the keel
- (D) At the thrust bearing of the main shaft

If choice A is selected set score to 1.

24. Angular motion about the vertical axis of a vessel refers to which term?

- (A) Sway
- (B) Surge
- (C) Yaw
- (D) Roll

If choice C is selected set score to 1.

25. A vessel's "quarter" is that section which is _____.

- (A) dead astern
- (B) abeam
- (C) just aft of the bow
- (D) on either side of the stern

If choice D is selected set score to 1.

26. When the handle of an all-purpose nozzle is in the vertical position and without an applicator, the all-purpose nozzle will _____.

- (A) produce a straight stream
- (B) produce high-velocity fog
- (C) produce low-velocity fog
- (D) shut off the water

If choice B is selected set score to 1.

27. Deficient oxygen content inside a chain locker can be detected with which item?

- (A) An oxygen indicator
- (B) An oxygen breathing apparatus
- (C) A combustible gas indicator
- (D) Litmus paper

If choice A is selected set score to 1.

28. If a gasoline engine turns over freely but will not start, the cause is generally _____.

- (A) weak valve springs
- (B) a defective ignition system
- (C) low lube oil level
- (D) too heavy a load

If choice B is selected set score to 1.

29. The radiotelephone safety message urgently concerned with safety of a person would be prefixed by which word?

- (A) Safety
- (B) Mayday
- (C) Pan
- (D) Interco

If choice C is selected set score to 1.

30. To prevent damage by and to storage batteries aboard small passenger vessels how should they be mounted?

- (A) Protected against shifting as the vessel pitches and rolls
- (B) In trays constructed of material that is resistant to the electrolyte
- (C) In a well ventilated area
- (D) All of the above

If choice D is selected set score to 1.

31. Which toxic gas is a product of incomplete combustion, and is often present when a fire burns in a closed compartment?

- (A) Carbon dioxide
- (B) Carbon monoxide
- (C) Hydrogen sulfide
- (D) Nitric oxide

If choice B is selected set score to 1.

32. What is the most important characteristic of the extinguishing agent in fighting a class "C" fire?

- (A) Electrical nonconductivity
- (B) Temperature
- (C) Cost
- (D) Weight

If choice A is selected set score to 1.

33. You are testing the external inflation bladder on an immersion suit and find it has a very slow leak. Which is the BEST action to be taken?

- (A) Take it out of service and repair in accordance with the manufacturers instructions.
- (B) Some leakage should be expected and a topping off tube is provided; no other action is necessary.
- (C) Replace the suit.
- (D) Replace the inflation bladder.

If choice A is selected set score to 1.

34. Fixed carbon dioxide fire extinguishing systems shall be installed to protect enclosed machinery and fuel tank spaces of all vessels using gasoline or other fuel having which flash point? (small passenger vessel regulations)

- (A) 0°F or lower
- (B) 75°F or lower
- (C) 90°F or lower
- (D) 110°F or lower

If choice D is selected set score to 1.

35. For emergency communications, vessels operating on oceans, coastwise, or Great Lakes routes, on runs of more than 30 minutes shall carry which items? (small passenger vessel regulations)

- (A) Six red hand flare distress signals
- (B) Six orange hand smoke distress signals
- (C) One 3-cell flashlight
- (D) Six red hand flare distress signals and six orange hand smoke distress signals

If choice D is selected set score to 1.

36. Your vessel has an injured crew member onboard that will require evacuation. Which of the following publications should you review for the procedures in conducting rescue/medivac helicopter operations?

- (A) Pub 117 Radio Aids to Navigation
- (B) Merchant Marine Officers Handbook
- (C) International Maritime Organization Life-Saving Appliance Code Manual
- (D) International Aeronautical and Maritime Search and Rescue Manual

If choice D is selected set score to 1.

37. A safe fuel system must _____.

- (A) be liquid- and vapor-tight
- (B) supply sufficient air to the intake manifold
- (C) have proper air/gasoline fuel mixture ratio
- (D) prevent engine overheating

If choice A is selected set score to 1.

38. On vessels that are required to have fixed carbon dioxide fire extinguishing systems, the controls to operate the system shall be installed in an accessible location. Which is the required location? (small passenger vessel regulations)

- (A) Locally at the carbon dioxide cylinders
- (B) Inside the space protected
- (C) In a padlocked waterproof metal box
- (D) Outside the space protected

If choice D is selected set score to 1.

39. What are the water pockets on the underside of an inflatable liferaft designed to accomplish?

- (A) Increase stability
- (B) Catching rain water
- (C) Allow easy drainage
- (D) Aid in maneuverability

If choice A is selected set score to 1.

40. When fighting fires in spaces containing bottles of LPG (liquefied petroleum gas), which is the most prudent action to take?

- (A) Attempt to isolate the fire from the LPG
- (B) Place insulating material over the bottles
- (C) See that the valves on all LPG bottles are closed
- (D) Cool the bottles or remove them from the fire area

If choice D is selected set score to 1.

41. Which of the following when removed will extinguish a fire?

- (A) Sodium
- (B) Oxygen
- (C) Nitrogen
- (D) Carbon dioxide

If choice B is selected set score to 1.

42. Routine radio communications should be no more than which duration?

- (A) one minute
- (B) three minutes
- (C) five minutes
- (D) eight minutes

If choice B is selected set score to 1.

43. While proceeding to a distress site, you hear the words "Seelonce mayday" on the radiotelephone. Which action should you take?

- (A) Monitor the radiotelephone but do not transmit.
- (B) Acknowledge receipt and advise your course, speed, and ETA.
- (C) Relay the original distress message as no other vessel has acknowledged it.
- (D) Resume base course and speed as your assistance is no longer required.

If choice A is selected set score to 1.

44. When must a small passenger vessel of not more than 65 feet in length must have a collision bulkhead?

- (A) When operates on exposed waters
- (B) If it is more than 40 feet in length and operates on partially exposed waters
- (C) If it carries more than 49 passengers
- (D) All of the above

If choice D is selected set score to 1.

45. Which is a requirement for electrical wiring on all "T-Boats"?

- (A) Wiring must be protected from the weather
- (B) Wiring must be concealed so the boat can be maintained more easily
- (C) Wiring must be concealed to prevent mechanical damage
- (D) Wiring must be in an accessible place behind the ceiling

If choice A is selected set score to 1.

46. Which is TRUE concerning fixed ballast, on small passenger vessels?

- (A) Only moved under the supervision of the owner, Master or shipyard
- (B) Moved temporarily for examination or repair of the vessel, when done under the supervision of an inspector
- (C) Moved under any condition except extreme emergency
- (D) Discharged or moved at any time

If choice B is selected set score to 1.

47. The life jackets on all vessels shall be _____.

- (A) Worn at all times
- (B) Readily available
- (C) Tested yearly
- (D) Inspected weekly by the Master

If choice B is selected set score to 1.

48. You are wearing a breathing apparatus inside a tank. How many tugs on the lifeline should you give to indicate that you need help?

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

If choice D is selected set score to 1.

49. The angle of maximum righting arm corresponds approximately to the angle of _____.

- (A) the load line
- (B) downflooding
- (C) loll
- (D) deck edge immersion

If choice D is selected set score to 1.

50. When is it recommended that the external flotation bladder on an immersion suit be inflated?

- (A) Before entry into the water
- (B) Only after four hours in the water
- (C) Upon entry into the water
- (D) Only after two hours in the water

If choice C is selected set score to 1.