

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

OUPV to Master Near Coastal  
Less than 100 Gross Registered Tons

Q165 Navigation and Deck General – Safety  
(Sample Examination)

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

1. Which is TRUE concerning fixed ballast, on small passenger vessels?
- A. Moved under any condition except extreme emergency
  - B. Only moved under the supervision of the owner, Master or shipyard
  - C. Moved temporarily for examination or repair of the vessel, when done under the supervision of an inspector
  - D. Discharged or moved at any time

Correct answer: C

2. When a helicopter is lifting personnel from an enclosed lifeboat, what should the other individuals in the boat do?
- A. Stand on the outside of the boat to assist the person being lifted
  - B. Enter the water in case the person being lifted slips from the sling
  - C. Remain seated inside to provide body weight for stability
  - D. Remove their life preservers to prepare for their transfer to the helicopter

Correct answer: C

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

Correct answer: A

4. In the regulations that apply to small passenger vessels which describes an "open boat"?
- A. A boat on which gambling and consumption of alcoholic beverages is permitted when underway or moored
  - B. A boat that is not protected from entry of water by means of a complete weathertight deck
  - C. A boat that is used for charter fishing or tours and is open to the public
  - D. A boat that is docked and open for visitors to come aboard and tour the craft

Correct answer: B

5. Considering the manning requirements for U.S. vessels, your three-watch cargo vessel has a deck crew of 20 people, exclusive of the officers. How many of these people do the manning regulations require to be Able Seamen?
- A. 5
  - B. 7
  - C. 10
  - D. 13

Correct answer: D

6. In mid-ocean, the characteristics of a wave are determined by three factors. What is NOT one of these factors?
- A. Wind velocity
  - B. Fetch
  - C. Length of time a wind has been blowing
  - D. Effect of the moon's gravity

Correct answer: D

7. Which T-Boat must be fitted with a suitable compass?
- A. The regulations do not require a compass on any vessel
  - B. A vessel engaged in ocean or coastwise service
  - C. A vessel operating on a short, restricted route on lakes, bays, and sounds
  - D. A vessel in river service

Correct answer: B

8. You are having a Coast Guard inspection. Which is TRUE concerning all of the carbon dioxide fire extinguishers aboard?
- A. All of the extinguishers will be checked for pressure loss
  - B. All of the extinguishers will be discharged and recharged
  - C. All of the extinguishers will be sent ashore to a service facility
  - D. All of the extinguishers will be weighed

Correct answer: D

9. Aboard small passenger vessels the number of children's life jackets carried must be at least what percentage of the total number of persons aboard?
- A. 4%
  - B. 7.5%
  - C. 10%
  - D. 15%

Correct answer: C

10. Which is the BEST method of determining if a vessel is dragging anchor?
- A. Observe the amount of line paid out
  - B. Note any change in the tautness of the anchor chain
  - C. Observe how much the vessel sheers while at anchor
  - D. Observe changes in bearings of fixed objects onshore

Correct answer: D

11. The height of a wave is the vertical distance from which reference points?
- A. From the crest to the trough
  - B. Between water levels at one-quarter of the wave's length
  - C. From the still water plane to the crest
  - D. From the still water plane to the trough

Correct answer: A

12. Aboard small passenger vessels which type(s) of ventilation must be provided for enclosed spaces containing gasoline engines or gasoline fuel tanks?

- A. At least one opening to the exterior of the hull
- B. Natural supply and mechanical exhaust
- C. Mechanical supply and natural exhaust
- D. All of the above

Correct answer: B

13. How shall Lifesaving equipment be stowed?

- A. Readily accessible for use
- B. Inaccessible to passengers
- C. On the topmost deck of the vessel at all times
- D. Locked up for safety

Correct answer: A

14. Before entering the chain locker, you should \_\_\_\_\_.

- A. have someone standing by
- B. de-energize the windlass
- C. make sure there is sufficient air within the locker
- D. All of the above

Correct answer: D

15. Under which conditions can a small passenger vessel operating on exposed or partially protected waters have a port light below the weather deck?

- A. Only if its sill is at least 30 inches above the deepest load waterline
- B. If it is sealed shut
- C. Only if it opens and has a solid, inside, hinged cover
- D. Only if it is made of thick transparent plastic

Correct answer: A

16. What is the name of tackle number 5 as shown in illustration D029DG below?

- A. Four-fold whip
- B. Double luff tackle
- C. Two-fold purchase
- D. 3-2 purchase

Correct answer: B

17. When a small craft's anchor fouls in a rocky bottom, how should the first attempt to clear it be made?

- A. Reversing the angle and direction of pull, with moderate scope
- B. Hauling vertically on the line
- C. Making the line fast to the bitt and bringing the vessel further forward
- D. Increasing the scope and running slowly in a wide circle with the anchor line taut

Correct answer: A

18. Which statement is TRUE concerning penetrations and openings in watertight bulkheads in a small passenger vessel less than 100 gross tons?

- A. Penetrations must have some means to make them watertight
- B. Penetrations must be kept as high and as far inboard as possible
- C. Penetrations must not contain sluice valves that allow water to flow freely from one watertight compartment to another
- D. All of the above

Correct answer: D

19. Which certificate is issued by the American Bureau of Shipping?

- A. Load Line Certificate
- B. Safety Equipment Certificate
- C. Certificate of Inspection
- D. Permit to Proceed for repairs

Correct answer: A

20. You are signing on a crew. When they present their Merchant Mariner Credential, you should suspect a fraudulent document if it has which endorsement listed on it?

- A. Any unlicensed rating in the deck department including AB
- B. Certificate of Registry
- C. Steward's Department (F.H.)
- D. Bosun

Correct answer: D

21. How do you know how many passengers you may carry? (small passenger vessel regulations)

- A. As many as possible
- B. The amount on the Certificate of Inspection
- C. Use your own judgment
- D. No more than 40 passengers

Correct answer: B

22. 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

Correct answer: C

23. What must be mounted at a small passenger vessel's operating station for use by the Master and crew?

- A. A tide table for the area
- B. The location of the first aid kit
- C. Emergency Instructions
- D. Instructions on artificial respiration

Correct answer: C

24. You are planning to anchor in an area where several anchors have been lost due to fouling. What precaution should you take?

- A. Anchor with scope of 8 or more to 1
- B. Only anchor using both anchors not set in bottom
- C. Fit a crown strap and work wire to the anchor
- D. Use a stern anchor with a scope of 8 or more to 1

Correct answer: C

25. 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 month
- B. Once a year
- C. Once a week
- D. Twice a year

Correct answer: A

26. What is the name of tackle number 1 as shown in illustration D029DG below?

- A. One-fold purchase
- B. Gun tackle
- C. Runner
- D. Single whip

Correct answer: D

27. You are signing on a crew. You can determine the minimum number and qualifications of the crew that you are required to carry by consulting which document?

- A. Certificate of Inspection
- B. Crew list
- C. Articles of Agreement
- D. Fo'c'sle card

Correct answer: A

28. Which statement is true regarding the forecastle card?

- A. It advises the crew of the conditions of employment
- B. It designates the quarters a seaman will occupy during a voyage
- C. It is posted in the crews' quarters and lists the emergency stations
- D. It is also known as a Merchant Mariner's Document

Correct answer: A

29. Life floats and buoyant apparatus may be stowed in tiers, one above the other, to which maximum height? (small passenger vessel regulations)

- A. 3 feet
- B. 4 feet
- C. 5 feet
- D. 6 feet

Correct answer: B

30. Your vessel has a gasoline engine and a mechanical exhaust ventilation system. BEFORE starting the engine. How long do regulations require the exhaust blower to run prior to starting the engine?
- A. Until it warms up the exhaust blower motor
  - B. Until it has provided a proper supply of fresh air to the engine(s)
  - C. Until it ensures that the system is in good operating condition
  - D. Until at least one complete change of air in the compartments is accomplished

Correct answer: D

31. On Subchapter T small passenger vessels, after loading and prior to departure, the master shall determine the vessel complies with all stability requirements in which of these documents?
- A. Stability letter
  - B. Certificate of Inspection
  - C. Load Line Certificate
  - D. All of the above

Correct answer: D

32. Your vessel is running in a following sea. Which term defines the motion your vessel is experiencing?
- A. Yawing
  - B. Heaving to
  - C. Pounding
  - D. Reduced speed

Correct answer: A

33. You are steaming in a heavy gale and find it necessary to heave to. Under most circumstances, how is this best accomplished?
- A. Stopping the engines and drifting beam to the seas
  - B. Taking the sea fine on the bow and reducing the speed
  - C. Going slow astern and taking the seas on the quarter
  - D. Increasing the speed and taking the sea broad on the bow

Correct answer: B

34. What is the purpose of sheer in the construction of the vessel?
- A. To eliminate the need for butt straps
  - B. To give greater strength at the deck edge
  - C. To eliminate the need for margin plates
  - D. To allow the ship to ride waves with drier decks

Correct answer: D

35. Which statement is TRUE concerning small passenger vessels bunks installed in overnight passenger accommodation spaces?
- A. must be no less than 74" long and 24" wide with 24" of clear space above
  - B. must be immediately adjacent to an aisle leading to a means of escape
  - C. must not be located more than 3 high, fitted with a suitable aid to access bunks more than 5' above deck with suitable aids to access bunks more than 5' above deck
  - D. All of the above

Correct answer: D

36. On small passenger vessels which is TRUE concerning all connections to electrical conductors?

- A. Connections must be made within enclosures
- B. Connections must be installed only by a licensed marine electrician
- C. Connections must be served and parceled with the lay
- D. Connections must be inspected annually by the Coast Guard

Correct answer: A

37. Which is the principal danger from ice collecting on a vessel?

- A. The adverse effect on trim
- B. The decrease in displacement
- C. The loss of stability
- D. The decrease in capabilities of radar

Correct answer: C

38. You are trying to rescue survivors from a wrecked vessel on fire. How should you make your approach?

- A. At a speed of at least that of the wrecked vessel
- B. At a speed of at most one-half that of the wrecked vessel
- C. To leeward of the wrecked vessel
- D. To windward of the wrecked vessel

Correct answer: D

39. What is the minimum number of people required to safely handle a 1-1/2 inch fire hose?

- A. 1
- B. 2
- C. 3
- D. 4

Correct answer: B

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

- A. Buoyant apparatus for 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. Life floats for 50% of all persons on board

Correct answer: B

41. 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

Correct answer: D



42. 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 or post 2017 one 10-B:C extinguisher
  - C. One B-II, C-II or post 2017 one 40-B:C extinguisher
  - D. One B-II or post 2017 40-B extinguisher

Correct answer: C

43. Which term is given to the process of separating both blocks of a tackle to prepare it for reuse?
- A. Over-hauling
  - B. Two-blocking
  - C. Chockablocking
  - D. Out-hauling

Correct answer: A

44. How are All life jackets carried on board small passenger vessels required to be marked? (small passenger vessel regulations)
- A. With the vessel's name
  - B. With the vessel's official number
  - C. With the maximum weight to be held by the life preserver
  - D. With the maximum serviceable life of the life preserver

Correct answer: A

45. The inspection of small passenger vessels of 60 feet in length carrying more than twelve persons on an international voyage is required by the Coast Guard at what time intervals? (small passenger vessel regulations)
- A. Once every 6 months
  - B. Once every year
  - C. Once every 2 years with a minimum of one reinspection during that period
  - D. Once every 3 years with a minimum of two reinspections during that period

Correct answer: B

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

Correct answer: C

47. Which ocean current is "warm" based on the latitude in which it originates and on the effect it has on climate?

- A. Peru Current
- B. Kuroshio Current
- C. Benguela Current
- D. California Current

Correct answer: B

48. What will happen if cargo is shifted from the lower hold to the main deck on the vessel?

- A. The GM will increase
- B. The center of gravity will move upwards
- C. The center of buoyancy will move downward
- D. The center of buoyancy will move up

Correct answer: B

49. 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. Loaded displacement
- B. Bale cubic
- C. Gross tonnage
- D. Deadweight

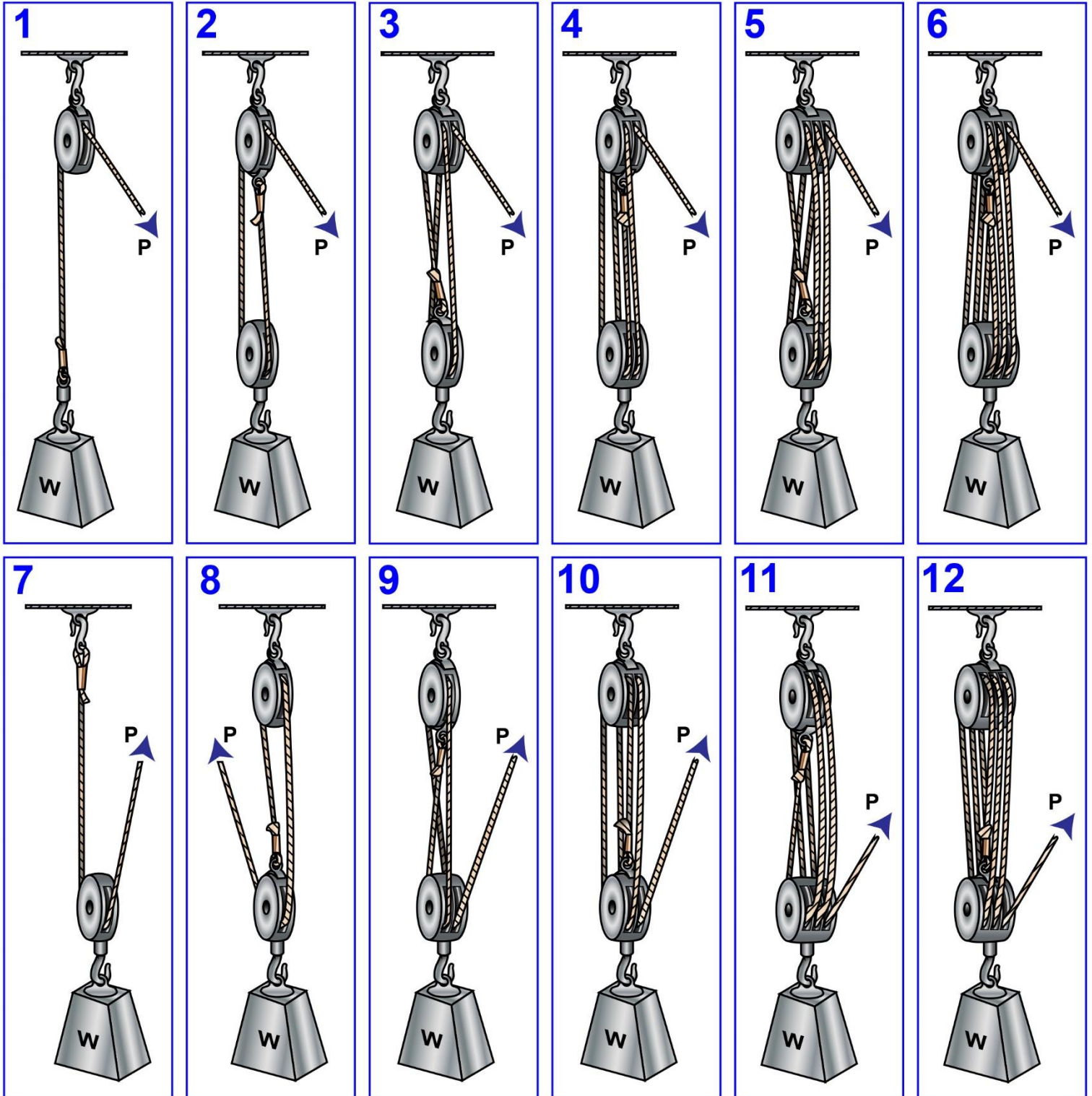
Correct answer: D

50. What provides little or no indication that a vessel is dragging anchor?

- A. Changing bearing to a fixed distant object abeam
- B. Changing range to an object abeam
- C. Drift lead with the line tending forward
- D. The cable alternates between slack and heavy tension

Correct answer: B

## D029DG



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