

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. 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 at least one complete change of air in the compartments is accomplished
 - 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 it warms up the exhaust blower motor

Correct answer: A

2. Which is TRUE concerning hatches on small passenger vessels operating on exposed waters and exposed to the weather?
- A. The hatch must be open at all times
 - B. The hatch must be watertight
 - C. The hatch need not be watertight
 - D. None of the above

Correct answer: B

3. Which statement is TRUE concerning the number of portable fire extinguishers required at the operating station of a small passenger vessel? (small passenger vessel regulations)
- A. None are required.
 - B. One B-I or post 2017 One 10-B:C extinguisher is required
 - C. One B-II or post 2017 One 40-B:C extinguisher is required
 - D. Two B-I or post 2017 Two 10-B:C extinguishers are required

Correct answer: B

4. When must the Master of a small passenger vessel fitted with loading doors ensure that the doors are closed, watertight and secured?
- A. When loading cargo
 - B. At all times, at the dock or underway when the loading door is not actually being used for passage
 - C. When leaving the dock
 - D. At all times when underway unless operating on protected or partially protected waters

Correct answer: D

5. 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

6. What is the difference between net tonnage and gross tonnage?

- A. There is no difference.
- B. Net tonnage is the gross tonnage less certain deductions for machinery and other areas.
- C. Net tonnage is the net weight of the ship.
- D. Net tonnage is tonnage of cargo compared to tonnage of whole ship.

Correct answer: B

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

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

Correct answer: A

8. Who carries the total responsibility for shipping and discharging the seamen on a vessel?

- A. Master of the vessel
- B. U.S. Coast Guard
- C. Steamship company
- D. U.S. Custom Service

Correct answer: A

9. Your vessel is discharging containers from the main deck with the ship's cranes. Which of the following must be taken into account when calculating the center of gravity as the containers are discharged?

- A. The vertical distance from the main deck plus the vertical distance to the head of the boom
- B. The vertical distance from the main deck plus the height of the container
- C. The vertical distance from the main deck to the heel of the boom plus half the height of the container
- D. The vertical distance from the main deck plus half the height of the container

Correct answer: A

10. A SOLAS passenger ship safety certificate is required on which vessel?

- A. T-Boats carrying more than 150 passengers for hire
- B. Large excursion vessels on lakes, bays, sounds, and river routes
- C. T-Boats carrying more than 49 passengers for hire
- D. T-Boats that carry more than 12 passengers on an international voyage

Correct answer: D

11. Who shall test every small passenger vessel's steering gear prior to getting underway for the day's operations?

- A. A Mate or Designated Duty Engineer
- B. The Mate on watch
- C. The Master
- D. A credential Engineer

Correct answer: C

12. A breeches buoy is being rigged from the shore to a stranded vessel. The initial shot line passed to the vessel is normally made fast to a _____.

- A. hawser which is used to pass a tail-block and whip to the vessel
- B. hawser which should be made fast to the vessel below the intended location of the tail-block
- C. hawser with breeches buoy and harness attached
- D. tail-block and whip which may be used to pass a hawser to the vessel

Correct answer: D

13. Which information is contained on a Certificate of Inspection issued to a small passenger vessel?

- A. Any special conditions or restrictions on her operation
- B. The name of the managing operator
- C. The minimum fire extinguishing equipment, lifejackets, survival and rescue craft she must carry
- D. All the above

Correct answer: D

14. What is the danger to personnel associated with using carbon dioxide in an enclosed space?

- A. Asphyxiation
- B. An explosive reaction
- C. Skin burns
- D. Frostbite

Correct answer: A

15. Which is TRUE of the term coastal current?

- A. It is also known as a longshore current
- B. It flows outside the surf zone
- C. It flows in a circular pattern
- D. It is generated by waves striking the beach

Correct answer: B

16. You are heading into the sea during rough weather. What may happen if there is too much weight forward in your small boat?

- A. The craft will broach
- B. The craft will rise rapidly over the wave
- C. The craft may plunge into the wave
- D. The craft will list severely

Correct answer: C

17. Which is the BEST action to take if your vessel is dragging her anchor in a strong wind?

- A. Shorten the scope of anchor cable
- B. Increase the scope of anchor cable
- C. Put over the sea anchor
- D. Put over a stern anchor

Correct answer: B

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

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

Correct answer: D

19. 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. Increasing the scope and running slowly in a wide circle with the anchor line taut
- C. Making the line fast to the bitt and bringing the vessel further forward
- D. Hauling vertically on the line

Correct answer: A

20. Fire hose should be washed with _____.

- A. salt water and a wire brush
- B. a holystone
- C. caustic soap
- D. mild soap and fresh water

Correct answer: D

21. As appropriate for the voyage, according to small passenger vessel regulations, all vessels must carry which adequate and up-to-date item(s)?

- A. Coast Pilots
- B. Light Lists
- C. Charts
- D. All of the above

Correct answer: D

22. Which statement is TRUE concerning fire hose on a small passenger vessel?

- A. A length of hose with nozzle attached shall be always attached to each fire hydrant.
- B. All fittings on hoses shall be of steel or other ferrous metal.
- C. Fire hose shall be at least 3/4" outside diameter.
- D. One length of fire hose shall be provided for every two fire hydrants.

Correct answer: A

23. 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

24. 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

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

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

Correct answer: D

26. Who is responsible for establishing watches aboard a U.S. vessel?

- A. The company that operates the vessel
- B. The Master of the vessel
- C. The company that charts the vessel
- D. The owner of the vessel

Correct answer: B

27. You have completed stability calculations for your vessel prior to getting underway. Your vessel's GM is small but positive. Which of the following is true?

- A. The vessel will possess a short rolling period
- B. The vessel will possess a long rolling period
- C. The vessel will possess high initial stability
- D. The vessel will possess negative stability

Correct answer: B

28. When rendering assistance to personnel in the water a SAR helicopter utilizes a rescue sling for most extractions. In which case would the use of a litter be preferred?

- A. When the person has a pacemaker and static discharge is a concern
- B. When the person is suffering from hypothermia
- C. When the person is not trained in the use of the rescue sling
- D. When the person is suffering from fatigue

Correct answer: B

29. Which term defines the ocean bottom that extends from the shoreline out to an area where there is a marked change in slope to a greater depth?

- A. Continental shelf
- B. Offshore terrace
- C. Borderland
- D. Abyssal plain

Correct answer: A

30. Which portable fire extinguisher is required just outside the exit of the propulsion machinery space of a 75-ton passenger vessel?

- A. One B-II, C-II or post 2017 One 40-B:C extinguisher
- B. One A-II or post 2017 One 2-A extinguisher
- C. One B-I or post 2017 One 10-B extinguisher
- D. None of the above

Correct answer: A

31. What shall be conducted during a fire and boat drill?

- A. All lifeboat equipment shall be examined.
- B. Fire pumps shall be started and all exterior outlets opened.
- C. All watertight doors in the vicinity of the drill shall be operated.
- D. All of the above

Correct answer: C

32. 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

Correct answer: C

33. Which may cause above-normal tides near the center of a hurricane?

- A. Torrential rains
- B. The jet stream
- C. High barometric pressure
- D. Storm surge

Correct answer: D

34. 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 75% of all persons on board
- B. The vessel have survival craft to accommodate 100% of all persons on board
- C. The vessel have survival craft to accommodate 25% of all persons on board
- D. The vessel have survival craft to accommodate 50% of all persons on board

Correct answer: D

35. What is the mechanical advantage of tackle number 10 as shown in illustration D029DG below?

- A. 4.0
- B. 4.5
- C. 5.0
- D. 5.5

Correct answer: C

36. Which device is required to be installed under the carburetor of a gasoline engine?

- A. Flame arrestor ONLY
- B. Drip collector
- C. Vent
- D. Box of sawdust

Correct answer: B

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

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

Correct answer: D

38. Which statement about the deck line is TRUE?

- A. On a vessel with a rounded stringer-sheer plate, the deck line is marked where the stringer plate turns down from the plane of the deck line.
- B. The top of the deck line is marked at the highest point of the freeboard deck, including camber, at the midships point.
- C. A vessel with wooden planks on a steel deck will have the deck line marked at the intersection of the upper line of the wood sheathing with the side shell.
- D. The deck edge is marked at the intersection of the freeboard deck with the side shell, at the lowest point of sheer, with the vessel at even trim.

Correct answer: C

39. 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

40. According to 46 CFR Subchapter T the definition of a ferry includes which vessels?

- A. Vessels used on a regular schedule
- B. Vessels that transport only Passengers Vehicles, or railroad cars
- C. Vessels that provide transportation only between places that are not more than 300 miles apart
- D. All of the above

Correct answer: D

41. 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. 100 gallons per minute
- C. 25 gallons per minute
- D. 50 gallons per minute

Correct answer: D

42. Your vessel is off a lee shore in heavy weather and laboring. Which action should you take?

- A. Put the sea and wind on either quarter and proceed at increased speed.
- B. Put the bow directly into the sea and proceed at full speed.
- C. Put the sea and wind about two points on either bow and reduce speed.
- D. Heave to in the trough of the sea.

Correct answer: C

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

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

Correct answer: C

44. You are the credentialed Master of a 100 GT towing vessel sailing coastwise. What percentage of the deck crew must be able to understand any order spoken by the officers?

- A. 50%
- B. 65%
- C. 75%
- D. 100%

Correct answer: C

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

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

Correct answer: B

46. On vessels subject to the provisions of 46 CFR Subchapter T, which statement is TRUE concerning life jackets?

- A. They shall be inaccessible to passengers
- B. They shall be stored in convenient places throughout the accommodation spaces
- C. They shall be on the topmost deck of the vessel at all times
- D. They shall be kept locked up at all times when underway

Correct answer: B

47. Which equipment is not required for a life float? (small passenger vessel regulations)

- A. Paddles
- B. Painter
- C. Compass
- D. Light

Correct answer: C

48. 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. Load Line Certificate
- B. Stability letter
- C. Certificate of Inspection
- D. All of the above

Correct answer: D

49. What is the name of tackle number 8 as shown in illustration D029DG?

- A. Single purchase
- B. Gun tackle
- C. Single luff tackle
- D. Parbuckle

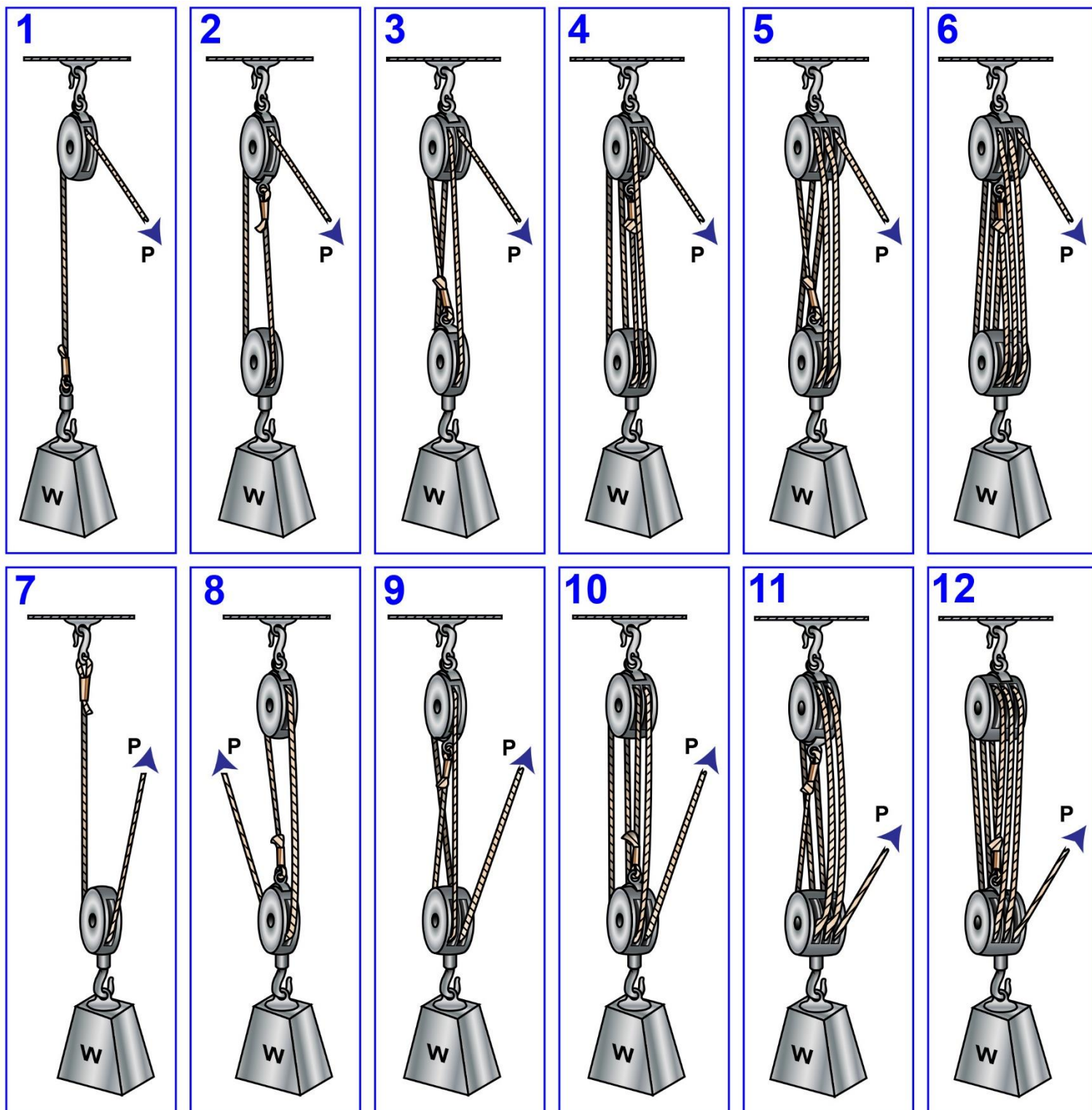
Correct answer: B

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

Correct answer: A



D029DG



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