

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

OUPV to Master Less than 100 Gross Registered Tons  
Great Lakes and Inland

Q352 Navigation and Deck General - Deck Safety  
(Sample Examination)

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

1. The Certificate of Freeboard is the \_\_\_\_\_.

- (A) Load Line Certificate
- (B) Admeasurer's Certificate
- (C) Forecastle Card
- (D) Certificate of Inspection

*If choice A is selected set score to 1.*

2. According to the T-Boat regulations the reason for providing adequate ventilation for a battery storage area is to prevent \_\_\_\_\_.

- (A) battery failure including battery case meltdown caused by excessive heat
- (B) mildew or dry rot in the battery box
- (C) accumulation of explosive and toxic gases the battery can generate
- (D) accumulation of carbon dioxide gas that chokes the battery

*If choice C is selected set score to 1.*

3. Recharging a previously used cartridge-operated dry-chemical extinguisher is accomplished by \_\_\_\_\_.

- (A) recharging the cartridge and refilling it with powder
- (B) authorized fire equipment servicing personnel only
- (C) replacing the propellant cartridge and refilling with powder
- (D) puncturing the cartridge seal after installation

*If choice C is selected set score to 1.*

4. The total magnetic effects which cause deviation of a vessel's compass can be broken down into a series of components which are referred to as \_\_\_\_\_.

- (A) divisional parts
- (B) coefficients
- (C) equations
- (D) fractional parts

*If choice B is selected set score to 1.*

5. The best method of determining if a vessel is dragging anchor is to note \_\_\_\_\_.

- (A) any change in the tautness of the anchor chain
- (B) changes in bearings of fixed objects onshore
- (C) how much the vessel sheers while at anchor
- (D) the amount of line paid out

*If choice B is selected set score to 1.*

6. In weighing CO2 cylinders, they must be recharged if weight loss exceeds \_\_\_\_\_.

- (A) 15% of weight of full bottle
- (B) 10% of weight of charge
- (C) 10% of weight of full bottle
- (D) 20% of weight of charge

*If choice B is selected set score to 1.*

7. The distance between the waterline of a vessel and the main deck is called \_\_\_\_\_.

- (A) freeboard
- (B) camber
- (C) buoyancy
- (D) draft

*If choice A is selected set score to 1.*

8. In the regulations that apply to small passenger vessels an "open boat" is a vessel \_\_\_\_\_.

- (A) on which gambling and consumption of alcoholic beverages is permitted
- (B) that is not protected from entry of water by means of a complete weathertight deck
- (C) that is used for charter fishing or tours and is open to the public
- (D) that is docked and open for visitors

*If choice B is selected set score to 1.*

9. What is the name of tackle number 6 as shown in illustration D029DG below?

- (A) Triple purchase
- (B) Boat falls
- (C) Threefold purchase
- (D) Clew garnet tackle

*If choice C is selected set score to 1.*

10. A drift lead indicates that the vessel is dragging anchor when the line is \_\_\_\_\_.

- (A) slack
- (B) leading out perpendicular to the centerline
- (C) leading under the hull
- (D) taut and leading forward

*If choice D is selected set score to 1.*

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

*If choice D is selected set score to 1.*

**12.** The standing part of a tackle is \_\_\_\_\_.

- (A) the hook that engages the weight to be moved
- (B) that part to which power is applied
- (C) all the fall except the hauling part
- (D) that part of the falls made fast to one of the blocks

*If choice D is selected set score to 1.*

**13.** A metal ring on the bottom of a block, to which the standing part of a tackle is spliced, is known as a(n) \_\_\_\_\_.

- (A) swivel
- (B) eye
- (C) loop
- (D) becket

*If choice D is selected set score to 1.*

**14.** What size block shell should be used with a 4-inch manila line?

- (A) 8"
- (B) 12"
- (C) 16"
- (D) 24"

*If choice B is selected set score to 1.*

**15.** A Certificate of Inspection issued to a small passenger vessel describes \_\_\_\_\_.

- (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

*If choice D is selected set score to 1.*

**16.** How much weight can you lift by applying 100 lbs. of force to a twofold purchase rigged to disadvantage (do not consider friction)?

- (A) 200 lbs.
- (B) 300 lbs.
- (C) 400 lbs.
- (D) 500 lbs.

*If choice C is selected set score to 1.*

**17.** Magnets in the binnacles of magnetic compasses are used to reduce the effect of \_\_\_\_\_.

- (A) local attraction
- (B) deviation
- (C) variation
- (D) All of the above

*If choice B is selected set score to 1.*

**18.** By convention, the Earth's south magnetic pole is colored \_\_\_\_\_.

- (A) red
- (B) blue
- (C) white
- (D) black

*If choice A is selected set score to 1.*

**19.** If the compass heading and the magnetic heading are the same then \_\_\_\_\_.

- (A) there is something wrong with the compass
- (B) the compass is being influenced by nearby metals
- (C) there is no deviation on that heading
- (D) the deviation has been offset by the variation

*If choice C is selected set score to 1.*

**20.** When a small craft's anchor fouls in a rocky bottom, the first attempt to clear it should be made by \_\_\_\_\_.

- (A) making the line fast to the bitt and bringing the vessel further forward
- (B) reversing the angle and direction of pull, with moderate scope
- (C) hauling vertically on the line
- (D) increasing the scope and running slowly in a wide circle with the anchor line taut

*If choice B is selected set score to 1.*

**21.** You are planning to anchor in an area where several anchors have been lost due to fouling. As a precaution, you should \_\_\_\_\_.

- (A) anchor with scope of 8 or more to 1
- (B) anchor using both anchors
- (C) use a stern anchor
- (D) fit a crown strap and work wire to the anchor

*If choice D is selected set score to 1.*

**22.** The forward draft of your ship is 27'-11" and the after draft is 29'-03". The draft amidships is 28'-05". Your vessel is \_\_\_\_\_.

- (A) listed
- (B) hogged
- (C) sagged
- (D) trimmed by the head

*If choice B is selected set score to 1.*

**23.** The ceiling is \_\_\_\_\_.

- (A) a wooden protection placed over the tank top
- (B) material driven into seams or cracks to prevent leaking
- (C) the overhead in berthing compartments
- (D) None of the above are correct

*If choice A is selected set score to 1.*

**24.** A fire hose with a nozzle attached must be connected to each hydrant except when exposed to heavy weather or when the \_\_\_\_\_.

- (A) fire hose might be damaged by cargo operations
- (B) vessel is in port
- (C) fire pumps are used for purposes other than supplying water to the fire main
- (D) fire-main system is not charged

*If choice A is selected set score to 1.*

**25.** The enclosed area defined as the intersection of the surface of the water and the hull of a vessel is the \_\_\_\_\_.

- (A) amidships plane
- (B) longitudinal reference plane
- (C) waterplane
- (D) baseline

*If choice C is selected set score to 1.*

**26.** The wooden planking that protects the tank top from cargo loading is called \_\_\_\_\_.

- (A) toms
- (B) ceiling
- (C) frames
- (D) shores

*If choice B is selected set score to 1.*

**27.** The term that indicates how many tons of cargo a vessel can carry is \_\_\_\_\_.

- (A) bale cubic
- (B) deadweight
- (C) loaded displacement
- (D) gross tonnage

*If choice B is selected set score to 1.*

**28.** A negative metacentric height \_\_\_\_\_.

- (A) will always cause a vessel to capsize
- (B) should always be immediately corrected
- (C) always results from off-center weights
- (D) All of the above are correct

*If choice B is selected set score to 1.*

**29.** If passengers are on board when an abandon ship drill is carried out, they should \_\_\_\_\_.

- (A) take part
- (B) stay out of the way and do what they want
- (C) watch
- (D) go to their quarters

*If choice A is selected set score to 1.*

**30.** 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 year
- (B) once a week
- (C) once a month
- (D) twice a year

*If choice C is selected set score to 1.*

**31.** The outlet at a fire hydrant may be positioned anywhere from horizontal to pointing \_\_\_\_\_.

- (A) vertically upward
- (B) 45° upward
- (C) vertically downward
- (D) all of the above

*If choice C is selected set score to 1.*

**32.** Carbon dioxide as a fire fighting agent has which advantage over other agents?

- (A) It is cheaper.
- (B) It is safer for personnel.
- (C) It is most effective on a per unit basis.
- (D) It causes minimal damage.

*If choice D is selected set score to 1.*

**33.** 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 a flash point of \_\_\_\_\_.  
(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.*

**34.** What would be an example of a B-I extinguisher? (small passenger vessel regulations)

- (A) 2 pound dry chemical
- (B) 2.5 gallon foam
- (C) 10 pound carbon dioxide
- (D) 5 pound foam

*If choice A is selected set score to 1.*

**35.** A person has fallen overboard and is being picked up with a lifeboat. If the person appears in danger of drowning, the lifeboat should make \_\_\_\_\_.

- (A) an approach across the wind
- (B) an approach from windward
- (C) the most direct approach
- (D) an approach from leeward

*If choice C is selected set score to 1.*

**36.** When a man who is conscious has fallen overboard is being picked up by a lifeboat, the boat should approach with the wind \_\_\_\_\_.

- (A) ahead and the victim just off the bow
- (B) just off the bow and the victim to leeward
- (C) just off the bow and the victim to windward
- (D) astern and the victim just off the bow

*If choice B is selected set score to 1.*

**37.** Unless otherwise stated, the term "approved" applied to a vessel's equipment, means approved by the \_\_\_\_\_. (small passenger vessel regulations)

- (A) American Bureau of Shipping
- (B) Board of Fire Underwriters
- (C) Congress of the United States
- (D) Commandant of the Coast Guard

*If choice D is selected set score to 1.*

**38.** Each vessel shall be dry-docked or hauled out at intervals not to exceed 2 years if operated in salt water for a total of more than \_\_\_\_\_. (small passenger vessel regulations)

- (A) 3 months in any 12 month period since it was last hauled out
- (B) 6 months in the 3 year period since it was last hauled out
- (C) 12 months in the 5 year period since it was last hauled out
- (D) whenever ownership or management changes

*If choice A is selected set score to 1.*

**39.** On small passenger vessels bunks installed in overnight passenger accommodation spaces \_\_\_\_\_.

- (A) 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
- (B) must be no less than 74" long and 24" wide with 24" of clear space above
- (C) must be immediately adjacent to an aisle leading to a means of escape
- (D) All of the above

*If choice D is selected set score to 1.*

**40.** How many escape routes must normally exist from all general areas accessible to the passengers or where the crew may be quartered or normally employed? (small passenger vessel regulations)

- (A) Two
- (B) Three
- (C) Four
- (D) Five

*If choice A is selected set score to 1.*

**41.** Fixed ballast, if used, may be \_\_\_\_\_. (small passenger vessel regulations)

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

*If choice D is selected set score to 1.*

**42.** What is correct with respect to required watertight bulkheads on small passenger vessels less than 100 GT?

- (A) Penetrations are prohibited.
- (B) Sluice valves are not permitted.
- (C) Each bulkhead must be stepped at its midpoint.
- (D) All of the above

*If choice B is selected set score to 1.*

**43.** Penetrations and openings in watertight bulkheads in a small passenger vessel less than 100 gross tons must \_\_\_\_\_.

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

*If choice D is selected set score to 1.*

**44.** On small passenger vessels which parts of a water-cooled gasoline or diesel engine must be water-jacketed and cooled?

- (A) The block
- (B) The exhaust manifold
- (C) The engine's head
- (D) All of the above

*If choice D is selected set score to 1.*

**45.** 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.*

**46.** In general, batteries aboard small passenger vessels should be \_\_\_\_\_.

- (A) stowed in well-ventilated spaces to allow dissipation of any gases generated
- (B) accessible for maintenance and removal
- (C) as high above the bilge as practicable
- (D) All of the above

*If choice D is selected set score to 1.*

**47.** 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 Master
- (C) a credential Engineer
- (D) the Mate on watch

*If choice B is selected set score to 1.*

**48.** The Master of a small passenger vessel fitted with loading doors must 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

*If choice D is selected set score to 1.*

**49.** A documented vessel's name is marked on a clearly visible exterior area of both sides of the bow and on the stern in block letters not less than \_\_\_\_\_.

- (A) 6 inches in height
- (B) 5 inches in height
- (C) 4 inches in height
- (D) 3 inches in height

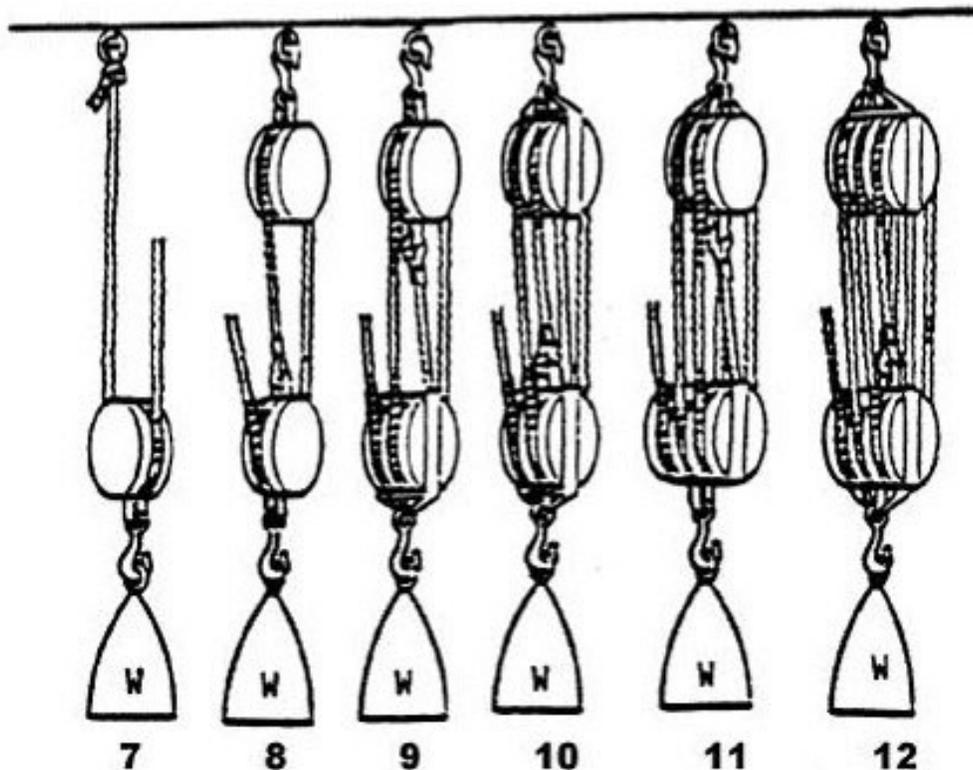
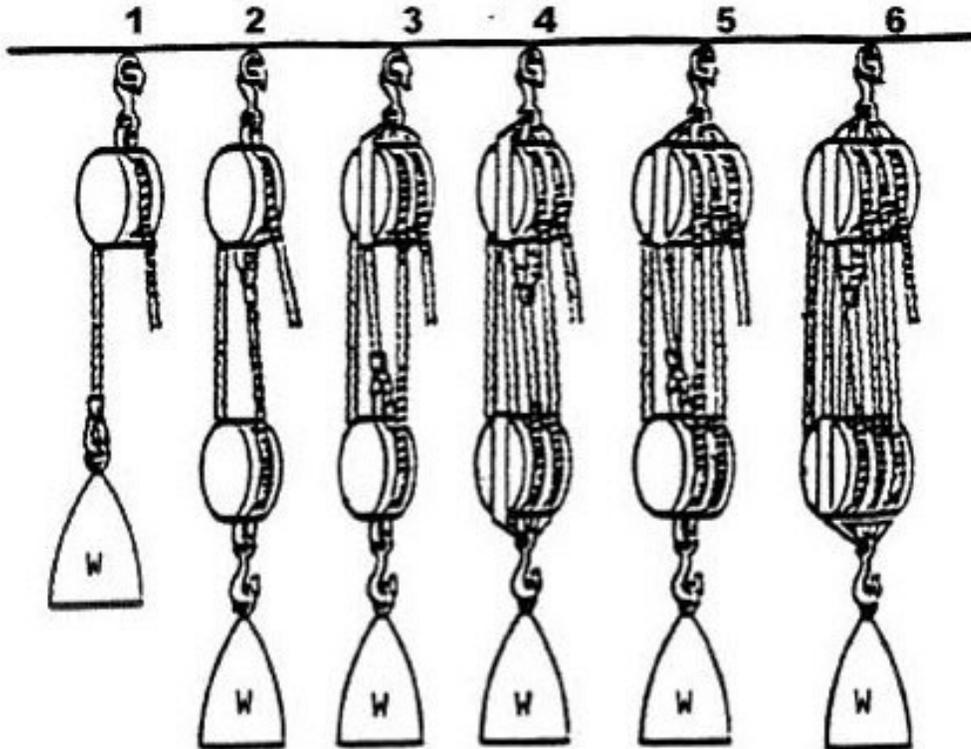
*If choice C is selected set score to 1.*

**50.** You are bound from port A governed by the summer load line mark to port B also governed by the summer mark. The great circle track will take you into a zone governed by the winter mark. Which statement is TRUE?

- (A) You must be at the winter mark when you enter the winter zone and cannot exceed the summer mark upon departing port A.
- (B) You can only load to the winter mark plus any fresh water allowance and burnout to sea at port A.
- (C) You cannot load beyond the summer mark at port A and must be at the winter mark upon arrival at port B.
- (D) You can load so that upon arrival at the pier at port B your freeboard is equal to the summer mark less any fresh water allowance.

*If choice A is selected set score to 1.*

## D029DG



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