

U.S.C.G. Merchant Marine Exam  
Mate Uninspected Fishing Vessels  
Q189 Deck Safety  
(Sample Examination)

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

1. Number 3 lifeboat would be \_\_\_\_\_.
- (A) the forward boat on the starboard side
  - (B) behind boat number 2 on the port side
  - (C) behind boat number 1 on the starboard side
  - (D) behind boat number 1 on the port side

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

2. When retrieving the survival craft, the helmsman should instruct the crewman to \_\_\_\_\_.
- (A) take the life preservers off
  - (B) open the doors
  - (C) check the fuel level
  - (D) check that hooks are fully locked in place

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

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

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

4. The greatest effect on stability occurs from loose liquids flowing \_\_\_\_\_.
- (A) from fore to aft in the tanks of a vessel
  - (B) from side to side in the tanks of the vessel
  - (C) in and out of a vessel that is holed in a wing tank
  - (D) in and out of a vessel that is holed in a peak tank

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

5. Free communication will adversely affect transverse stability only when the flooded space is \_\_\_\_\_.
- (A) completely flooded
  - (B) open to the sea above and below the waterline
  - (C) off-center
  - (D) on the centerline

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

6. You have abandoned ship and are in charge of a liferaft. How much water per day should you permit each occupant to drink after the first 24 hours?

- (A) 1 pint
- (B) 1 can
- (C) 1 quart
- (D) 1 gallon

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

7. The spread of fire is prevented by \_\_\_\_\_.

- (A) removing combustibles from the endangered area
- (B) cooling surfaces adjacent to the fire
- (C) shutting off the oxygen supply
- (D) All of the above

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

8. You are on watch and see a man fall overboard. Which man overboard turn should NOT be used in this situation?

- (A) Racetrack
- (B) Scharnow
- (C) Single turn
- (D) Williamson

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

9. A tank 36 ft. by 36 ft. by 6 ft. is filled with water to a depth of 5 ft. If a bulkhead is placed in the center of the tank running fore-and-aft along the 36-foot axis, how will the value of the moment of inertia of the free surface be affected?

- (A) The moment of inertia would be 1/2 the original value.
- (B) The moment of inertia would remain unchanged.
- (C) The moment of inertia would be 1/4 its original value.
- (D) None of the above

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

10. Progressive flooding is controlled by securing watertight boundaries and \_\_\_\_\_.

- (A) transferring water ballast
- (B) abandoning ship
- (C) pumping out flooded compartments
- (D) jettisoning cargo

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

**11.** The correction to KG for transverse free surface effects may be found by dividing the vessel's displacement into the \_\_\_\_\_.

- (A) sum of the transverse free surface moments of the vessel
- (B) sum of the vertical moments of the vessel
- (C) transverse baseline of the vessel
- (D) transverse free surface correction for the vessel

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

**12.** 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.*

**13.** When the height of the metacenter is greater than the height of the center of gravity, the upright equilibrium position is stable and stability is \_\_\_\_\_.

- (A) neutral
- (B) negative
- (C) positive
- (D) unstable

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

**14.** 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.*

**15.** What is the penalty for failure to enforce, or comply with, the vessel bridge-to-bridge radiotelephone regulations?

- (A) \$5,000 fine and imprisonment for not more than one year, or both
- (B) Civil penalty of no more than \$5,000
- (C) Civil penalty of no more than \$650
- (D) \$1,000 fine or imprisonment for not more than two years

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

**16.** 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.*

**17.** What is NOT a motion of the vessel?

- (A) Pitch
- (B) Yaw
- (C) Roll
- (D) Trim

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

**18.** The horizontal port or starboard movement of a vessel is called \_\_\_\_\_.

- (A) heave
- (B) surge
- (C) yaw
- (D) sway

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

**19.** Signs of racking stresses generally appear at the \_\_\_\_\_.

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

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

**20.** You must shore up a bulkhead due to solid flooding forward. The bulkhead approximates a rectangle. The center of pressure of the shores on the bulkhead should be located \_\_\_\_\_.

- (A) approximately one-third of the way up the bulkhead
- (B) approximately halfway up the bulkhead
- (C) evenly over the surface of the bulkhead
- (D) at the bottom of the bulkhead

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

**21.** The brickwork surrounding the firebox of a boiler is known as \_\_\_\_\_.

- (A) the water wall
- (B) refractory
- (C) the screen wall
- (D) fire plate

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

**22.** 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.*

**23.** 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.*

**24.** 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.*

**25.** The main advantage of a steady stream of water on a class "A" fire is that it \_\_\_\_\_.

- (A) breaks up and cools the fire
- (B) washes the fire away
- (C) protects the firefighting crew
- (D) removes the oxygen

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

**26.** What is the MOST important consideration when determining how to fight an electrical fire?

- (A) Whether the fire is in machinery or passenger spaces
- (B) Maintaining electrical power
- (C) The amount of toxic fumes created by the extinguisher
- (D) Danger of shock to personnel

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

**27.** Ventilation systems connected to a compartment in which a fire is burning are normally closed to prevent the rapid spread of the fire by \_\_\_\_\_.

- (A) spontaneous combustion
- (B) conduction
- (C) radiation
- (D) convection

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

**28.** A fire in a pile of canvas is classified as class \_\_\_\_\_.

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

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

**29.** 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.*

**30.** 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.*

**31.** 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.*

**32.** If you are forced to abandon ship in a rescue boat, you should \_\_\_\_\_.

- (A) head for the nearest land
- (B) head for the closest sea-lanes
- (C) remain in the immediate vicinity
- (D) vote on what to do, so all hands will have a part in the decision

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

**33.** If help has not arrived in 10-12 hours after abandoning a vessel in a rescue boat, you should \_\_\_\_\_.

- (A) go in one direction until the fuel runs out
- (B) shut down the engines if installed and put out the sea anchor
- (C) steer a course for the nearest land
- (D) steer a course for the nearest sea lane

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

**34.** 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.*

**35.** 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.*

**36.** While you are on watch, you learn that a crewman has not been seen on board for the past three hours. Which type of turn is best in this man-overboard situation?

- (A) Scharnow
- (B) Racetrack
- (C) Round
- (D) Single turn of 180°

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

**37.** A situation has occurred in which your vessel must be towed. When the towing vessel passes the towing line to you, you should secure the line \_\_\_\_\_.

- (A) to the forward part of the deckhouse
- (B) to the forward-most bits
- (C) to the base of the foremast
- (D) at the stern

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

**38.** You are approaching a ship that is broken down and are preparing to take her in tow. BEFORE positioning your vessel to pass the towline, you must \_\_\_\_\_.

- (A) compare the rate of drift between the ships
- (B) install chafing gear on the towline
- (C) secure the bitter end of the towing hawser to prevent loss if the tow is slipped
- (D) have traveling lizards rigged to guide the towline while it is paid-out

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

**39.** You are the first vessel to arrive at the scene of a distress. Due to the volume of traffic on the radio, you are unable to communicate with the vessel in distress. Which action should you take?

- (A) Broadcast "Charlie Quebec-Mayday-Quiet".
- (B) Switch to flag hoists.
- (C) Key the microphone three times in quick succession.
- (D) Broadcast "Seelonce Distress".

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

**40.** You see an iceberg that has not been reported. What kind of radio message do you transmit to warn others?

- (A) Routine message
- (B) Safety message
- (C) Distress message
- (D) Urgency message

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

**41.** The color of rockets, shells, or rocket parachute flares used to indicate that the vessel is in distress and requires immediate assistance is \_\_\_\_\_.

- (A) white
- (B) green
- (C) yellow
- (D) red

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

**42.** By day, what is the signal meaning, "This is the best place to land"?

- (A) white smoke signal
- (B) vertical motion of a red flag
- (C) white star rocket
- (D) vertical motion of a white flag or the arms

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

**43.** An emergency sea anchor may be constructed by using \_\_\_\_\_.

- (A) a boat bucket
- (B) an air tank filled with water
- (C) an oar and canvas weighted down
- (D) All of the above

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

**44.** According to the regulations for lifeboat falls, which action must be taken at 30-month intervals?

- (A) End-for-ended
- (B) Inspected
- (C) Weight tested
- (D) Renewed

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

**45.** What could be a result of insufficient lubrication of lifeboat winches and davits?

- (A) Corroding of sheaves on the davits so they will not rotate
- (B) Moisture accumulation in winch motor damaging the electrical wiring
- (C) Freezing of gears in cold weather
- (D) All of the above

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

- 46.** You have abandoned ship and find yourself aboard a lifeboat in a heavy sea. Your boat is able to make way through the water. To prevent broaching, you should \_\_\_\_\_.
- (A) place everyone as far forward in the boat as possible to keep the bow heavy
  - (B) put the sea on your stern and run as fast as the boat will go
  - (C) head the boat into the swells to take them at a 30 to 40 degree angle on either bow and run as slow as possible without losing steerage
  - (D) take no action to prevent broaching as this is a recommended maneuver in a heavy sea

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

- 47.** In illustration D014SA below, which item number correctly identifies the sea anchor?
- (A) 1
  - (B) 12
  - (C) 14
  - (D) 18

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

- 48.** What is placed on the underside of an inflatable liferaft to help prevent it from being skidded by the wind or overturned?
- (A) Strikes
  - (B) Sea anchor
  - (C) A keel
  - (D) Ballast bags

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

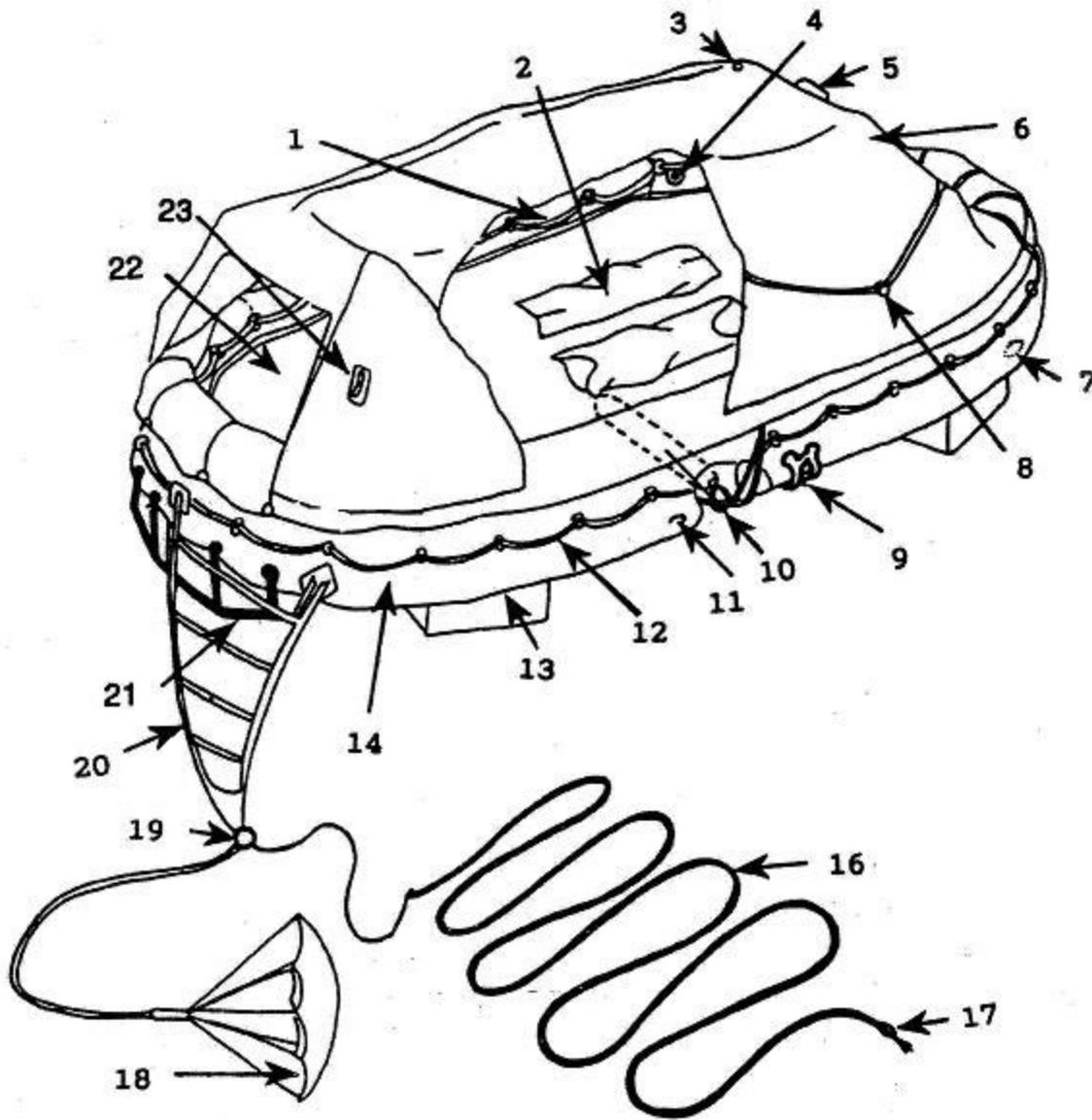
- 49.** To launch a liferaft by hand, you should \_\_\_\_\_.
- (A) throw the liferaft over the side and pull the operating cord
  - (B) cut the casing bands, throw the raft over the side and it will inflate by itself
  - (C) cut the casing bands, throw the raft over the side and pull the operating cord
  - (D) detach the operating cord, throw the liferaft over the side and it will then inflate

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

- 50.** To disengage a survival craft suspended from the cable above the water, you must pull the safety pin and \_\_\_\_\_.
- (A) pull the hook release handle and use the ratchet bar
  - (B) pull the hook release handle
  - (C) use the ratchet bar and depress the retainer
  - (D) pull the hook release handle and depress the retainer

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

## D014SA



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