

U.S.C.G. Merchant Marine Exam

Master or Mate Less than 200 Gross Registered Tons

Q341 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. What is the minimum number of fire pumps required on a cargo vessel of 2,000 GT?
- (A) 1
 - (B) 2
 - (C) 3
 - (D) 4

If choice B is selected set score to 1.

3. 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.

4. 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.

5. Before starting any diesel or gasoline engine, which of the following must be checked?
- (A) Exhaust discharge
 - (B) Flow of cooling water
 - (C) Oil level
 - (D) All of the above

If choice C is selected set score to 1.

6. To lubricate the swivel or remove corrosion from a fire hose coupling, you should use _____.
- (A) kerosene
 - (B) graphite
 - (C) glycerine
 - (D) fresh water and soap

If choice D is selected set score to 1.

7. 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.

8. 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.

9. You have the "conn" at the time the helmsman who is steering by hand reports that the rudder is not responding to the wheel. Your FIRST action should be to _____.
- (A) signal the engine room to stop the engines
 - (B) call the engine room
 - (C) call the Master
 - (D) shift the selector switch to the other steering pump

If choice D is selected set score to 1.

10. 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.

11. You are a watchstanding mate and have come to the bridge to relieve the watch. After reviewing the chart and having been briefed by the off-going mate, you are now ready to effect the relief. The watch is officially transferred to you after _____.

- (A) the mate being relieved says, "You have the conn" and you state the ship's course
- (B) you say, "I relieve you" and you state the course per gyro and magnetic compasses
- (C) the mate being relieved tells you the vessel's course and speed and states that you have the watch
- (D) you state the vessel's charted position, present course and port of destination

If choice B is selected set score to 1.

12. 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.

13. 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.

14. 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.

15. Normally Before taking drinking water on board in the U.S. or its possessions, the responsible person from the vessel should determine that the source _____.

- (A) is used by a city
- (B) is approved by the Public Health Service
- (C) is not from surface water
- (D) has been treated with chlorine

If choice B is selected set score to 1.

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

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

If choice A is selected set score to 1.

17. 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.

18. In illustration D033DG below, what is the strake of shell plating indicated by letter H known as?

- (A) bilge strake
- (B) garboard strake
- (C) sheer strake
- (D) outboard keel plate

If choice B is selected set score to 1.

19. 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.

20. To find the cause of a gasoline engine's failure to start, you should _____.

- (A) break the joint in the fuel line at the engine and let the gas run in the bilges
- (B) ventilate the space, then check the battery, spark plugs, carburetor, and fuel line
- (C) prime the engine with ether through spark plug openings
- (D) disconnect the wires at the spark plugs and make the spark jump the gap

If choice B 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 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.

23. In a water-tube marine type boiler, after the steam leaves the generating tubes, in what part of the boiler is temperature of the steam increased?

- (A) Superheater
- (B) Economizer
- (C) Mud drum
- (D) Firebox

If choice A is selected set score to 1.

24. 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.

25. A fire starting by spontaneous combustion can be expected in which condition?

- (A) Oily rags are stowed in a metal pail.
- (B) Inert cargoes such as pig iron are loaded in a wet condition.
- (C) Clean mattresses are stored in contact with an electric light bulb.
- (D) Paints, varnish, or other liquid flammables are stowed in a dry stores locker.

If choice A is selected set score to 1.

26. The quickest method to stop a small diesel engine whose throttle or governor has become stuck open is to _____.

- (A) drain the fuel tank
- (B) turn off the ignition switch
- (C) apply the shaft brake
- (D) close the fuel supply valve

If choice D is selected set score to 1.

27. You have carbon tetrachloride as part of the cargo. If a fire breaks out in the general area, what is the major danger from the carbon tetrachloride?

- (A) Phosgene gas may be formed if it comes in contact with hot metal.
- (B) You cannot use water to fight the fire because it will react with the carbon tetrachloride.
- (C) It will explode if exposed to a flame.
- (D) It will burn rapidly once ignited.

If choice A is selected set score to 1.

28. The minimum concentration of a vapor in air which can form an explosive mixture is called the _____.

- (A) threshold limit value (TLV)
- (B) lower explosive limit (LEL)
- (C) auto-ignition point
- (D) flash point

If choice B is selected set score to 1.

29. An "ABC" dry chemical fire extinguisher would be LEAST effective against a fire in _____.

- (A) high voltage electrical gear
- (B) a trash can
- (C) a mattress
- (D) spilled liquids such as oil or paint

If choice C is selected set score to 1.

30. 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.

31. 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.

32. To safely enter a compartment where CO₂ has been released from a fixed extinguishing system, you should _____.

- (A) wear a canister type gas mask
- (B) wear a self-contained breathing apparatus
- (C) test the air with an Orsat apparatus
- (D) test the air with a pure air indicator

If choice B is selected set score to 1.

33. 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.

34. 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.

35. 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.

36. Fire in an engine compartment is best extinguished with carbon dioxide gas (CO₂) and by _____.

- (A) closing the compartment except for the ventilators
- (B) leaving the compartment open to the air
- (C) increasing the air flow to the compartment by blowers
- (D) completely closing the compartment

If choice D is selected set score to 1.

37. 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.

38. Normally It is desirable to have screens on the vents of potable water tanks to _____.

- (A) prevent backups
- (B) prevent explosions
- (C) filter the incoming air
- (D) stop insects from entering

If choice D is selected set score to 1.

39. What would be used to call all stations in your vicinity by radiotelephone?

- (A) Kilo
- (B) Calling all stations
- (C) Charlie Quebec
- (D) Alpha Alpha

If choice C 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. What is a FALSE statement concerning the line throwing appliance on a vessel?

- (A) The auxiliary line must be at least 1500 feet long.
- (B) The auxiliary line must be of a light color.
- (C) The actual firing is at the discretion of the Master.
- (D) A drill on its use must be held once every three months.

If choice B is selected set score to 1.

44. The required amount of water for each person in a lifeboat on an oceangoing vessel, on an international voyage, is _____.

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

If choice C is selected set score to 1.

45. The governor brake on a lifeboat winch shall be capable of controlling the speed of lowering a fully equipped lifeboat from a cargo ship at _____.

- (A) not more than 120 feet per minute
- (B) not less than 120 feet per minute
- (C) a safe speed only specified
- (D) not more than 90 feet per minute

If choice A is selected set score to 1.

46. The service use of pyrotechnic distress signals measured from the date of manufacture shall be limited to a period of _____.

- (A) 24 months
- (B) 36 months
- (C) 42 months
- (D) 60 months

If choice C is selected set score to 1.

47. A B-II fire extinguisher has a minimum capacity of _____.

- (A) 3 gallons of foam
- (B) 20 pounds of CO₂
- (C) 10 pounds of dry chemical
- (D) All of the above

If choice C is selected set score to 1.

48. 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.

49. 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.

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.

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