

U.S.C.G. Merchant Marine Exam

Mobile Offshore Drilling Units

Q437 Barge Supervisor - Deck General - Safety

(Sample Examination)

Choose the best answer for the following Multiple Choice Questions.

1. Low pressure disturbances, which travel along the intertropical convergence zone, are called _____.

- (A) tropical waves
- (B) permanent waves
- (C) tidal waves
- (D) tropical storms

If choice A is selected set score to 1.

2. What is the average speed of the movement of a hurricane following the recurvature of its track?

- (A) 40 to 50 knots
- (B) 5 to 10 knots
- (C) 20 to 30 knots
- (D) Over 60 knots

If choice C is selected set score to 1.

3. The region containing 3/4 of the mass of the atmosphere and the region to which are confined such phenomena as clouds, storms, precipitation and changing weather conditions is called _____.

- (A) troposphere
- (B) stratosphere
- (C) stratopause
- (D) tropopause

If choice A is selected set score to 1.

4. If the current and wind are in the same direction, the sea surface represents a wind speed _____.

- (A) higher than actually exists
- (B) that has no proportional relationship
- (C) that actually exists
- (D) lower than actually exists

If choice D is selected set score to 1.

5. Air masses near the earth's surface _____.

- (A) are deflected by the earth's rotation in both hemispheres
- (B) are deflected by the "Coriolis effect"
- (C) move from areas of high pressure to areas of low pressure
- (D) All of the above

If choice D is selected set score to 1.

6. Temperature and moisture characteristics are modified in a warm or cold air mass due to _____.

- (A) upper level atmospheric changes
- (B) the heterogeneous nature of the air mass
- (C) movement of the air mass
- (D) pressure changes in the air mass

If choice C is selected set score to 1.

7. The velocity of a rotary tidal current will be decreased when the Moon is _____.

- (A) full
- (B) new
- (C) at apogee
- (D) All of the above

If choice C is selected set score to 1.

8. The tides in Boston Harbor generally _____.

- (A) are diurnal in nature
- (B) have their variations caused by the changing declination of the Moon
- (C) have a greater range than the tides in Gulf Coast ports
- (D) All of the above

If choice C is selected set score to 1.

9. 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.

10. 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.

11. 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.

12. 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.

13. 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.

14. 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.

15. 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.

16. 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.

17. Which statement about firefighting foam is TRUE?

- (A) To be most effective, foam should be directed at the base of the fire.
- (B) Foam is most effective on burning liquids which are flowing.
- (C) Foam conducts electricity.
- (D) Foam can ONLY be used to extinguish class A fires.

If choice C is selected set score to 1.

18. Which statement describes the primary process by which fires are extinguished by dry chemical?

- (A) The stream of dry chemical powder cools the fire.
- (B) The powder forms a solid coating over the surface.
- (C) The dry chemical powder attacks the fuel and oxygen chain reaction.
- (D) The dry chemical smothers the fire.

If choice C is selected set score to 1.

19. Which statement is TRUE concerning carbon dioxide?

- (A) It is non-conductive.
- (B) It is used on class B and C fires.
- (C) It is heavier than air.
- (D) All of the above are true.

If choice D is selected set score to 1.

20. In continuous operation, the effective range of the 15 pound CO₂ extinguisher is limited to _____.

- (A) 2 to 4 feet
- (B) 3 to 8 feet
- (C) 9 to 12 feet
- (D) 10 to 15 feet

If choice B is selected set score to 1.

21. An obstruction on a helodeck is any object that might present a hazard to the _____.

- (A) pilot's visibility
- (B) loading of cargo
- (C) rotor blades and landing gear
- (D) unloading of passengers

If choice C is selected set score to 1.

22. In a combination chain and wire rope mooring system, the anchor chain is deployed at the anchor end of the line to _____.

- (A) increase the holding power
- (B) increase fatigue life of the system
- (C) reduce the catenary
- (D) reduce the time to retrieve the line

If choice A is selected set score to 1.

23. The chemicals in sacks aboard MODU's are palletized to reduce _____.

- (A) labor in loading and handling
- (B) contamination
- (C) pilferage
- (D) marking and labeling

If choice A is selected set score to 1.

24. The American Petroleum Institute recommends that connecting links and anchor shackles be inspected using _____.

- (A) x-ray inspection
- (B) visual examinations
- (C) dye penetrant inspection
- (D) magnetic particle inspection

If choice D is selected set score to 1.

25. What is the primary use of antiseptics?

- (A) reduce inflammation
- (B) speed healing
- (C) prevent infection
- (D) increase blood circulation

If choice C is selected set score to 1.

26. What should you avoid when administering first aid?

- (A) any conversation with the patient
- (B) touching the patient before washing your hands
- (C) instructing bystanders
- (D) unnecessary haste and appearance of uncertainty

If choice D is selected set score to 1.

27. A person reports to you with a fishhook in his thumb, what procedure should you use to remove it?

- (A) push the barb through, cut it off, then remove the hook
- (B) cut the skin from around the hook
- (C) pull it out with pliers
- (D) have a surgeon remove it

If choice A is selected set score to 1.

28. Ordinarily, bleeding from a vein may be controlled by what method?

- (A) pouring ice water directly onto the wound
- (B) applying direct pressure to the wound
- (C) heavy application of a disinfectant
- (D) pinching the wound closed

If choice B is selected set score to 1.

29. In the case of a casualty involving a MODU, the Master, owner, agent or person in charge shall make the records required by regulation available upon request to _____.

- (A) anyone involved in the casualty
- (B) the local Captain of the Port
- (C) any Coast Guard official authorized to investigate the casualty
- (D) All of the above

If choice C is selected set score to 1.

30. On offshore drilling units fitted with fixed CO2 systems, the system must withstand a bursting pressure of at least _____.

- (A) 5,000 pounds per square inch
- (B) 6,000 pounds per square inch
- (C) 8,000 pounds per square inch
- (D) 10,000 pounds per square inch

If choice B is selected set score to 1.

31. A branch line valve of a fire extinguishing system on a MODU must be marked with the _____.

- (A) date of the last maintenance inspection
- (B) pressure needed to maintain an effective stream at that point
- (C) maximum pressure allowed at that branch
- (D) name of the space or spaces which it serves

If choice D is selected set score to 1.

32. On offshore drilling units, the number of industrial personnel permitted to be on board during drilling operations is found on the _____.

- (A) Owner's Operation Manual
- (B) Safety of Life at Sea Certificate
- (C) Classification Certificate
- (D) U.S. Coast Guard Certificate of Inspection

If choice D is selected set score to 1.

33. To determine the number of portable fire extinguishers required on a mobile offshore drilling unit, you should check the _____.

- (A) Operations Manual
- (B) hot work permit
- (C) Certificate of Inspection
- (D) Safety of Life at Sea Certificate

If choice C is selected set score to 1.

34. Annual inspection of MODU cranes shall be conducted by _____.

- (A) U.S. Coast Guard
- (B) the person in charge
- (C) the crane operator
- (D) a qualified inspector

If choice D is selected set score to 1.

35. What is the international calling and distress channel found on all VHF-FM equipped drilling rigs?

- (A) Channel 1
- (B) Channel 10
- (C) Channel 16
- (D) Channel 68

If choice C is selected set score to 1.

36. You are standing radio watch and monitoring VHF Channel 16 when you receive a call to your rig, TEXAS STAR, from a supply boat. What is the proper way to answer this call?

- (A) 'This is TEXAS STAR, WSR 1234, reply Channel 10.'
- (B) 'This is TEXAS STAR on Channel 16. Come back.'
- (C) 'This is TEXAS STAR. Pick a channel.'
- (D) 'Please stand by. We're busy right now.'

If choice A is selected set score to 1.

37. A MODU must have on board a first-aid kit that is approved by the _____.

- (A) Mine Safety and Health Administration
- (B) Occupational Safety and Health Administration
- (C) Minerals Management Service
- (D) American Bureau of Shipping

If choice A is selected set score to 1.

38. Offshore drilling units must have at least two ring buoys with water lights that, when released from the mounting rack, activate a _____.

- (A) smoke signal
- (B) battery powered horn
- (C) radio signal
- (D) steam whistle

If choice A is selected set score to 1.

39. On a MODU, the locker or space containing the self-contained breathing apparatus must _____.

- (A) be equipped with battery powered emergency lighting
- (B) be located in close proximity to the main control station
- (C) be marked "SELF-CONTAINED BREATHING APPARATUS"
- (D) All of the above

If choice C is selected set score to 1.

40. The routes to be used during evacuation of the MODU are shown in the _____.

- (A) Muster List ("Station Bill")
- (B) official log
- (C) posted Fire Control/Lifesaving Plan
- (D) control room under glass

If choice C is selected set score to 1.

41. The muster list must be posted in conspicuous locations and signed by the _____.

- (A) safety officer
- (B) Coast Guard Officer approving the bill
- (C) owner
- (D) Master

If choice D is selected set score to 1.

42. What is the primary advantage of a davit-launched liferaft in comparison to an inflatable liferaft?

- (A) The davit-launched liferaft enables personnel to enter the raft without having to enter the water.
- (B) The davit-launched liferaft has a built-in sprinkler system for fire protection.
- (C) The davit-launched liferaft is made of fire-retardant material.
- (D) The davit-launched liferaft is easier to maintain.

If choice A is selected set score to 1.

43. The muster list shows each rig hand's muster station, his duties during abandonment, basic instructions, and _____.

- (A) instructions for lowering the survival craft
- (B) work schedule
- (C) the time each weekly drill will be held
- (D) all emergency signals

If choice D is selected set score to 1.

44. On offshore drilling units each inflatable liferaft that is not intended for davit launching must be stowed so as to float free or be _____.

- (A) equipped with a hydrostatic release
- (B) located above the main deck area
- (C) replaced every 12 months
- (D) stowed in approved racks

If choice A is selected set score to 1.

45. The limit switches on a MODUs survival-craft winch system _____.

- (A) stop the winch in case the craft weighs too much
- (B) stop the winch just before the craft reaches the final stowage position
- (C) limit the ascent rate
- (D) limit the amount of cable on the drum

If choice B is selected set score to 1.

46. When a davit-launched raft is lowered from a MODU, upon becoming waterborne, the raft is released by _____.

- (A) the effects of buoyancy removing the weight of the raft from the hook
- (B) activating the release lock of the hook
- (C) releasing the boarding flap and the bousing lines
- (D) pulling smartly on the knobbed cocking lanyard

If choice A is selected set score to 1.

47. An immersion suit must be equipped with a(n) _____.

- (A) air bottle for breathing
- (B) whistle, light and retroreflective material
- (C) sea dye marker
- (D) orange smoke canister

If choice B is selected set score to 1.

48. Which is TRUE concerning immersion suits and their use?

- (A) Only a light layer of clothing may be worn underneath.
- (B) They should be tight fitting.
- (C) A puncture in the suit will not appreciably reduce its value.
- (D) They provide sufficient flotation to do away with the necessity of wearing a life jacket.

If choice D is selected set score to 1.

49. The external inflation bladder on an immersion suit should be inflated _____.

- (A) after one hour in the water
- (B) after you enter the water
- (C) after you notice that your suit is losing buoyancy
- (D) before you enter the water

If choice B is selected set score to 1.

50. Life jackets should be marked with the _____.

- (A) stowage space assigned
- (B) vessel's name
- (C) maximum weight allowed
- (D) vessel's home port

If choice B is selected set score to 1.