

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. Which term is given to the dense black cumulonimbus clouds surrounding the eye of a hurricane?

- (A) Spiral rain bands
- (B) Funnel clouds
- (C) Cyclonic spirals
- (D) Wall clouds

If choice D is selected set score to 1.

2. Tropical cyclones normally form within which of the following belts of latitude?

- (A) 15° to 30°
- (B) 5° to 15°
- (C) 30° to 45°
- (D) 45° to 60°

If choice B is selected set score to 1.

3. Weather patterns in the Gulf of Mexico area of the United States are _____.

- (A) extremely hot in summer
- (B) tropical over Florida and subtropical over the rest of the Gulf Coast area
- (C) those of a tropical region
- (D) those of a transition zone between tropical and a temperate area

If choice D is selected set score to 1.

4. If the current and wind are in opposite directions, what does the sea surface indicate?

- (A) The surface indicates a higher wind speed than what really exists
- (B) The surface does not change, each cancels the other
- (C) The surface indicates a greatly reduced wind speed
- (D) The surface indicates a lower wind speed than what really exists

If choice A is selected set score to 1.

5. Which is a characteristic of warm air masses?

- (A) Turbulence within the mass
- (B) Heavy precipitation
- (C) Good visibility
- (D) Stratiform clouds

If choice D is selected set score to 1.

6. Ascending and descending air masses with different temperatures is part of an important heat transmitting process in our atmosphere. Which term is given to this process?
- (A) Radiation
 - (B) Convection
 - (C) Barometric inversion
 - (D) Conduction

If choice B is selected set score to 1.

7. Where can data relating to the direction and velocity of rotary tidal currents in a U.S. Port be found?
- (A) Tidal Current Tables
 - (B) Nautical Almanac
 - (C) Mariner's Guide
 - (D) Tide Tables

If choice A is selected set score to 1.

8. How many high waters usually occur each day on the East Coast of the United States?
- (A) One
 - (B) Two
 - (C) Three
 - (D) Four

If choice B is selected set score to 1.

9. All personnel on board a vessel should be familiar with the rescue boat's _____.
- (A) fuel consumption rates
 - (B) navigational systems
 - (C) maintenance schedules
 - (D) boarding and operating procedure

If choice D 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 month
 - (B) Twice a year
 - (C) Once a week
 - (D) Once a year

If choice A is selected set score to 1.

11. Which types of portable fire extinguishers are designed for use on electrical fires?

- (A) Dry chemical and soda-acid
- (B) Dry chemical and carbon dioxide
- (C) Carbon dioxide and foam (stored pressure)
- (D) Foam (stored pressure) and soda-acid

If choice B is selected set score to 1.

12. Fires of which class would most likely occur in the engine room of a vessel?

- (A) Classes A and D
- (B) Classes C and D
- (C) Classes B and C
- (D) Classes A and B

If choice C is selected set score to 1.

13. When electrical equipment is involved in a fire, where should the stream of dry chemicals be directed?

- (A) Fogged above the equipment
- (B) Shot off a flat surface onto the flames
- (C) Aimed at the source of the flames
- (D) Used to shield against electrical shock

If choice C is selected set score to 1.

14. When the handle of an all-purpose nozzle is pulled all the way back, it will _____.

- (A) shut off the water
- (B) produce high-velocity fog
- (C) produce a straight stream
- (D) produce low-velocity fog

If choice C is selected set score to 1.

15. Before using a fixed CO₂ system to fight an engine room fire, you must _____.

- (A) secure the engine room ventilation
- (B) secure the machinery in the engine room
- (C) evacuate all engine room personnel
- (D) All of the above

If choice D is selected set score to 1.

16. Your tankship has 40 gallons of 6% foam concentrate aboard. Approximately how much foam solution can be produced from this supply?

- (A) 200 gallons
- (B) 420 gallons
- (C) 667 gallons
- (D) 986 gallons

If choice C is selected set score to 1.

17. Which is an advantage of an ABC dry chemical over a carbon dioxide extinguisher?

- (A) Lack of toxicity
- (B) Greater multipurpose extinguishing ability
- (C) Less damage to electrical components
- (D) Burn-back protection

If choice B is selected set score to 1.

18. The safety discs on carbon dioxide cylinders are set to release at 2,700 psi. Under normal circumstances this pressure will be reached at which temperature?

- (A) 70°F
- (B) 100°F
- (C) 125°F
- (D) 135°F

If choice D is selected set score to 1.

19. The gross weight of a fully charged CO₂ bottle in a fixed CO₂ system is 220 lbs. When the bottle is empty it weighs 120 lbs. What is the minimum acceptable gross weight of the CO₂ bottle before it should be recharged by the manufacturer?

- (A) 200 lbs
- (B) 205 lbs
- (C) 210 lbs
- (D) 220 lbs

If choice C is selected set score to 1.

20. How does foam extinguish an oil fire?

- (A) By removing the fuel source from the fire
- (B) By increasing the weight of the oil
- (C) By excluding the oxygen from the fire
- (D) By cooling the oil below the ignition temperature

If choice C is selected set score to 1.

21. Thirty-five percent of the breaking strength of an anchor cable is generally accepted as the _____.

- (A) safe operating load
- (B) allowable storm load
- (C) normal operating tension
- (D) emergency working load

If choice A is selected set score to 1.

22. The only wire rope termination which may be made in the field is _____.

- (A) swaged socket
- (B) thimble mechanical splice
- (C) spelter poured and resin sockets
- (D) hand splice

If choice C is selected set score to 1.

23. When may a personnel net be used to bring heavy equipment aboard an offshore drilling unit?

- (A) Only when the seas are calm
- (B) Never
- (C) Only during rough weather
- (D) Only when there are no personnel in the net

If choice B is selected set score to 1.

24. Increasing the area of the anchor flukes will _____.

- (A) increase holding power
- (B) decrease holding power
- (C) make penetration more complete
- (D) not effect holding power

If choice A is selected set score to 1.

25. Where there are multiple accident victims, which condition should be the first to receive emergency treatment?

- (A) Burns
- (B) Back injuries
- (C) Major multiple fractures
- (D) Suspension of breathing

If choice D is selected set score to 1.

26. What is it called when you sort accident victims according to the severity of their injuries?

- (A) Triage
- (B) Surveying
- (C) Evaluation
- (D) Prioritizing

If choice A is selected set score to 1.

27. A person has suffered a laceration of the arm. Severe bleeding has been controlled by using a sterile dressing and direct pressure. What should you do next?

- (A) Administer fluids to assist the body in replacing the lost blood.
- (B) Remove any small foreign matter and apply antiseptic.
- (C) Apply a pressure bandage over the dressing.
- (D) Apply a tourniquet to prevent the bleeding from restarting.

If choice C is selected set score to 1.

28. What is the preferred method of controlling external bleeding?

- (A) Direct pressure on the wound
- (B) Pressure on a pressure point
- (C) Elevating the wounded area
- (D) A tourniquet above the wound

If choice A is selected set score to 1.

29. When weight-testing a davit launched liferaft on a mobile offshore drilling unit, which is the deadweight equivalent for each person in the allowed capacity of the raft?

- (A) 150.2 pounds
- (B) 166.4 pounds
- (C) 174.9 pounds
- (D) 181.8 pounds

If choice D is selected set score to 1.

30. Who is responsible for reporting a casualty to a mobile offshore drilling unit?

- (A) The pilot
- (B) The engineer
- (C) The surveyor
- (D) The owner

If choice D is selected set score to 1.

31. A construction portfolio may be included as part of the MODU _____.

- (A) general plans
- (B) operating manual
- (C) builders documentation
- (D) Coast Guard file

If choice B is selected set score to 1.

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

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

If choice C is selected set score to 1.

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

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

If choice D is selected set score to 1.

34. A MODU crane which has been idle for a period of over six months shall be inspected to the same standards as a _____.

- (A) yearly inspection
- (B) quarterly inspection
- (C) monthly inspection
- (D) weekly inspection

If choice A 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) 'Please stand by. We're busy right now.'
- (C) 'This is TEXAS STAR on Channel 16. Come back.'
- (D) 'This is TEXAS STAR. Pick a channel.'

If choice A is selected set score to 1.

37. The immersion suit requirements for MODU's apply to units operating in the Atlantic Ocean above _____.

- (A) 20°North and below 20°South
- (B) 25°North and below 25°South
- (C) 30°North and below 30°South
- (D) 32°North and below 32°South

If choice D is selected set score to 1.

38. Each EPIRB required on a MODU shall be stowed in a manner which will permit _____.

- (A) it to float free if the unit sinks
- (B) replacement of the battery without exposure to the weather
- (C) it to remain attached to the unit
- (D) easy access to its storage compartment

If choice A is selected set score to 1.

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

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

If choice A is selected set score to 1.

40. The MODU has suffered a casualty which requires an orderly evacuation of the unit using the lifeboats and liferafts. Among the items to accomplish in preparing to evacuate the unit is _____.

- (A) distributing self-contained breathing devices
- (B) taking a soil sample of the bottom
- (C) securing the unit as in preparation for a severe storm
- (D) All of the above

If choice C is selected set score to 1.

41. Where will you find the requirements for the signals that must be sounded by a mobile offshore drilling unit that is being towed through an area of restricted visibility?

- (A) MMS Rules
- (B) COLREGS
- (C) SOLAS Convention
- (D) Coast Pilot

If choice B is selected set score to 1.

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

If choice B is selected set score to 1.

43. The Muster List ("Station Bill") shows each person's lifeboat station, duties during abandonment, basic instructions, and _____.

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

If choice D is selected set score to 1.

44. Each buoyant work vest on a MODU must be _____.

- (A) Coast Guard approved
- (B) marked with the name of the unit
- (C) equipped with a water light
- (D) All of the above

If choice A is selected set score to 1.

45. During the required periodic abandon ship drill aboard a MODU, each person not assigned duties in the muster list is _____.

- (A) shown a video demonstrating lifeboat launching
- (B) instructed in the use of life jackets
- (C) instructed in the use of portable fire extinguishers
- (D) not required to attend the boat drill

If choice B is selected set score to 1.

46. The instructions for launching lifeboats and liferafts on a MODU must be approved by the _____.

- (A) lease operator
- (B) person-in-charge of the unit
- (C) Minerals Management Service
- (D) Coast Guard

If choice D is selected set score to 1.

47. Which statement concerning immersion suits is TRUE?

- (A) Immersion suits should be worn while performing routine work on deck.
- (B) Any tear or leak will render the suit unserviceable and it must be replaced.
- (C) During the annual maintenance, the front zipper should be lubricated using light machine oil or mineral oil.
- (D) After purchasing, the suit should be stowed in the storage bag in which it was received.

If choice D is selected set score to 1.

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

- (A) They should be tight fitting.
- (B) Only a light layer of clothing may be worn underneath.
- (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. Which statement is TRUE concerning life preservers?

- (A) Life preservers are not designed to turn a person's face clear of the water when unconscious.
- (B) Life preservers must always be worn with the same side facing outwards.
- (C) Buoyant vests may be substituted for life preservers.
- (D) Kapok life preservers must have vinyl-covered pad inserts.

If choice D is selected set score to 1.

50. An immersion suit should be equipped with a/an _____.

- (A) whistle and hand held flare
- (B) air bottle for breathing
- (C) whistle, hand held flare and sea dye marker
- (D) whistle, strobe light and reflective tape

If choice D is selected set score to 1.