

U.S.C.G. Merchant Marine Exam
Mobile Offshore Drilling Units
Q430 OIM - Deck General - Safety
(Sample Examination)

Choose the best answer to the following Multiple Choice Questions.

1. In a storm, the windward lines of a MODU's mooring system provide _____.

- (A) a negative restoring force
- (B) a positive righting moment
- (C) a positive restoring force
- (D) an increase in KM

If choice C is selected set score to 1.

2. 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.

3. All entries in the Official Logbook must be signed by the Master and if required, who else?

- (A) One other crew member
- (B) The Chief Engineer
- (C) The person about whom the entry concerns
- (D) No other signature is required.

If choice A is selected set score to 1.

4. Which of the following is not an acceptable unit of measure to be used consistently throughout an Oil Record Book?

- (A) Cubic meters
- (B) Gallons
- (C) Barrels
- (D) Tons

If choice D is selected set score to 1.

5. A vessel is involved in a casualty. The cost of property damage includes the _____.

- (A) loss of revenue while the vessel is being repaired, up to a maximum of \$50,000
- (B) damage claims awarded to individuals or companies involved in the casualty, up to a maximum of \$50,000
- (C) cost of labor and material to restore the vessel to the service condition which existed before the casualty
- (D) All of the above

If choice C is selected set score to 1.

6. Requirements for H2S preparation and equipment usage aboard MODU's in U.S. offshore waters are administered by which of the following organizations?

- (A) Minerals Management Service
- (B) American National Standards Institute
- (C) U.S. Coast Guard
- (D) U.S. Corps of Engineers

If choice A is selected set score to 1.

7. Medical treatment aboard a vessel should not go beyond examination and emergency care without first consulting _____.

- (A) a medical doctor
- (B) the designated medic aboard
- (C) the approved company medical manual
- (D) the shore based superintendent

If choice A is selected set score to 1.

8. 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.

9. 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.

10. The helicopter deck of a MODU must be marked with the unit's identification, appropriate aiming circles, and a continuous line on the perimeter which is _____.

- (A) 8 inches wide
- (B) 16 inches wide
- (C) 24 inches wide
- (D) 32 inches wide

If choice B is selected set score to 1.

11. Which statement is TRUE concerning an inflatable liferaft?

- (A) The raft may be boarded before it is fully inflated.
- (B) Crew members can jump into the raft without damaging it.
- (C) The floor may be inflated for insulation from cold water.
- (D) All of the above

If choice D is selected set score to 1.

12. While taking weather observations, you determine that the wind is coming from the west. In the weather log, how would you record the wind direction?

- (A) 000°
- (B) 090°
- (C) 180°
- (D) 270°

If choice D is selected set score to 1.

13. The International Oil Pollution Prevention Certificate on a MODU is valid for a period of _____.

- (A) one year from the date of issue
- (B) two years from the date of issue
- (C) three years from the date of issue
- (D) four years from the date of issue

If choice D is selected set score to 1.

14. What is LEAST likely to cause ignition of fuel vapors?

- (A) Explosion proof lights
- (B) An open running electric motor
- (C) Loose wiring
- (D) Static electricity

If choice A is selected set score to 1.

15. To have the ultimate authority for a mobile offshore drilling unit while it is under tow, a rig mover must _____.

- (A) hold an Able Seaman endorsement and be designated as the person in charge of the rig
- (B) be certified by the Minerals Management Service and be designated as the person in charge of the rig
- (C) hold an endorsement as Offshore Installation Manager and be held as the person in charge of the rig
- (D) be certified by an approved classification society and be designated as the person in charge of the rig

If choice C is selected set score to 1.

16. The probability of sulfide stress cracking in the presence of hydrogen sulfide is greatest for which of the following materials?

- (A) rubber sealing elements
- (B) high strength steel
- (C) aluminum
- (D) low strength steel

If choice B is selected set score to 1.

17. On a MODU, a door that is required to be marked "KEEP CLOSED" is designed to _____.

- (A) prevent the passage of poisonous vapors
- (B) maintain watertight integrity
- (C) prevent the passage of flammable gases
- (D) delay the spread of heat and flames

If choice B is selected set score to 1.

18. 2.5.7.2A2-78) What is the minimum required number of fire axes that must be carried on a mobile offshore drilling unit?

- (A) 2
- (B) 3
- (C) 4
- (D) 5

If choice A is selected set score to 1.

19. 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.

20. Temperature and moisture characteristics are modified in a warm or cold air mass due to which factor?

- (A) Movement of the air mass
- (B) Pressure changes in the air mass
- (C) The heterogeneous nature of the air mass
- (D) Upper level atmospheric changes

If choice A is selected set score to 1.

21. Which is TRUE if passengers are on board when an abandon ship drill is carried out?

- (A) The passengers should stay out of the way and do what they want
- (B) The passengers should take part in the drill
- (C) The passengers should just watch
- (D) Passenger should go to their quarters during drills

If choice B is selected set score to 1.

22. 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.

23. Information about currents around Pacific Coast ports of the U.S. can be obtained in which publication?

- (A) Nautical Almanac
- (B) Tide Tables
- (C) Ocean Current Tables
- (D) Tidal Current Tables

If choice D is selected set score to 1.

24. Which is TRUE when a current flows in the opposite direction to the waves?

- (A) The wave velocity increases
- (B) The wave length is unchanged
- (C) The wave length is increased
- (D) The wave height is increased

If choice D is selected set score to 1.

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

- (A) Burns
- (B) Eye injuries
- (C) Major multiple fractures
- (D) Severe shock

If choice D is selected set score to 1.

26. Who is the legal owner of the Oil Record Book for a fixed or floating drilling rig?

- (A) The drilling rig's owner, until surrendered upon request
- (B) The local state government where the drilling rig is located
- (C) The U.S. government
- (D) The company leasing the drilling rig

If choice C is selected set score to 1.

27. 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.

28. Beyond the area of state ownership in the U.S. outer continental shelf, the right to drill is controlled by the _____.

- (A) U.S. Corps of Engineers
- (B) American Bureau of Shipping
- (C) U.S. Coast Guard
- (D) Minerals Management Service

If choice D is selected set score to 1.

29. Which is supplied to the vessel by the U.S. Coast Guard?

- (A) Bell book
- (B) Rough Logbook
- (C) Cargo gear register
- (D) Official Logbook

If choice D is selected set score to 1.

30. The atmosphere in a tank is too rich when it is _____.

- (A) incapable of supporting combustion because the hydrocarbon vapor content makes the atmosphere above the UFL (Upper Flammable Limit)
- (B) in a noncombustible state which can be relied on to occur naturally on a regular basis
- (C) capable of supporting combustion
- (D) incapable of supporting combustion because the hydrocarbon vapor content makes the atmosphere below the LFL (Lower Flammable Level)

If choice A is selected set score to 1.

31. 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.

32. What should you do in order to initiate CPR on a drowning victim?

- (A) Begin mouth-to-mouth ventilations
- (B) Start chest compressions before the victim is removed from the water
- (C) Do not tilt the head back since it may cause vomiting
- (D) Drain water from the lungs before ventilating

If choice A is selected set score to 1.

33. Periodic surveys to renew the load line assignment for a MODU must be made at intervals not exceeding _____.

- (A) 18 months
- (B) 2 years
- (C) 3 years
- (D) 5 years

If choice D is selected set score to 1.

34. 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.

35. After your vessel has been involved in a casualty, who are you required to make your logbooks, bell books, etc., available to?

- (A) Marine surveyors
- (B) Attorneys for opposition parties
- (C) U.S. Coast Guard officials
- (D) All of the above

If choice C is selected set score to 1.

36. 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.

37. If you are required to jump from any height from your vessel when should the external flotation bladder of an immersion suit be inflated?

- (A) Only after four hours in the water
- (B) Before entry into the water
- (C) After entry into the water
- (D) Only after two hours in the water

If choice C is selected set score to 1.

38. 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.

39. If you observe any situation which presents a safety or pollution hazard during fuel transfer operations on a MODU, what action should you take FIRST?

- (A) Wait for the person in charge to act.
- (B) Shut down the transfer operation.
- (C) Sound the fire alarm.
- (D) Notify the ballast control operator.

If choice B is selected set score to 1.

40. 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.

41. When pumping fuel between an offshore supply vessel (OSV) and a MODU, there must be direct VHF radio contact between the offshore supply vessel engineer and the _____.

- (A) person in charge of the fuel transfer
- (B) crane operator
- (C) ballast control operator
- (D) barge superintendent

If choice A is selected set score to 1.

42. 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.

43. After a liferaft is launched, the operating cord _____.

- (A) is used to rig the boarding ladder
- (B) is cut immediately as it is of no further use
- (C) serves as a sea painter
- (D) detaches automatically

If choice C is selected set score to 1.

44. It is desirable that a vessel encountering hurricane or typhoon conditions sends weather reports to the closest meteorological service at which time interval?

- (A) Every hour
- (B) Every 3 hours
- (C) Every 8 hours
- (D) Every 6 hours

If choice B is selected set score to 1.

45. Which statement is TRUE about firefighting foam?

- (A) The air bubbles in foam act as an insulator in fighting a class C fire.
- (B) Foam can be used to control gases escaping from compressed gas cylinders.
- (C) Foam sets up a vapor barrier over a flammable liquid preventing flammable gases from rising.
- (D) The effectiveness of foam in forming a blanket over a burning liquid increases as the temperature of the liquid increases.

If choice C is selected set score to 1.

46. 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.

47. Who is responsible for lowering the survival craft?

- (A) First man aboard
- (B) Helmsman
- (C) Last man aboard
- (D) Roustabout

If choice B is selected set score to 1.

48. In weighing CO₂ cylinders, they must be recharged if weight loss exceeds which amount?

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

If choice D is selected set score to 1.

49. Which officer is responsible for the sanitary condition of the engineering department?

- (A) First Assistant
- (B) Chief Engineer
- (C) Master
- (D) Chief Mate

If choice B is selected set score to 1.

50. The outlet at a fire hydrant may be positioned anywhere from horizontal to pointing in which direction(s)?

- (A) Vertically downward
- (B) 45° upward
- (C) Vertically upward
- (D) All of the above

If choice A is selected set score to 1.