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 __________.
   o (A) a negative restoring force
   o (B) a positive righting moment
   • (C) a positive restoring force
   o (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?
   o (A) Dry chemical and soda-acid
   • (B) Dry chemical and carbon dioxide
   o (C) Carbon dioxide and foam (stored pressure)
   o (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
   o (B) The Chief Engineer
   o (C) The person about whom the entry concerns
   o (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?
   o (A) Cubic meters
   o (B) Gallons
   o (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 __________.
   o (A) loss of revenue while the vessel is being repaired, up to a maximum of $50,000
   o (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
   o (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.*