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Q137 - Deck Safety

1. What is the required minimum length of the painter for a lifeboat in ocean service?

- two times the distance from the boat deck to the light waterline or 50 feet whichever is greater
- 60 fathoms
- the distance from the main deck to the light waterline
- twice the distance from the main deck to the light waterline or 50 feet whichever is greater

Note:

The minimum length of a lifeboat painter in ocean service is determined by regulations requiring it to be twice the distance from the boat deck to the light waterline, or 50 feet, whichever is greater, ensuring sufficient slack for safe launching and maneuvering.

2. What is the function of wearing rings found on some centrifugal pumps?

- Absorb erosion of high-velocity discharge stream
- Seal pump shaft against entry of air
- Isolate the outlet side from the inlet side
- Dampen the turbulent discharge flow

Note:

Wearing rings in centrifugal pumps isolate the high-pressure discharge side from the low-pressure suction side, minimizing internal leakage and maintaining pump efficiency. They are replaceable components designed to limit flow between these pressure zones, unlike shaft seals or flow dampeners.

3. In a longitudinally-framed ship, the longitudinal frames are held in place and supported by athwartship members called _____.

- stringers
- web frames
- floors
- margin plates

Note:

Web frames are transverse members that specifically support and secure longitudinal frames in a longitudinally-framed ship.

4. A vessel having continuous closely spaced transverse strength members is _____.

- cellular framed
- web framed
- longitudinally framed
- transversely framed

Note:

A transversely framed vessel is defined by continuous, closely spaced transverse strength members running athwartship.

5. Which is the MOST important consideration for a tank vessel?

- GM
- The longitudinal center of gravity
- The vertical center of gravity
- **The stress on the hull**

Note:

Maintaining hull girder stress within safe limits is the primary concern for tank vessels, as structural failure is catastrophic even with acceptable stability parameters like GM, LCG, and VCG; therefore, stress on the hull is the most important consideration.

6. The AMVER system for vessels in the Gulf of Mexico is administered by which organization?

- **U.S. Coast Guard**
- Minerals Management Service
- Corps of Engineers
- Department of Energy

Note:

The U.S. Coast Guard administers the AMVER system, a global voluntary ship-reporting system that supports maritime search and rescue, including vessels in the Gulf of Mexico. Other agencies listed have unrelated responsibilities.

7. AMVER is a system which provides _____.

- satellite communications
- navigational information
- weather information
- **position reporting service**

Note:

AMVER is a voluntary ship position reporting system operated by the U.S. Coast Guard to support search and rescue operations; therefore, the correct answer is position reporting service. AMVER does not provide satellite communications, navigational information, or weather information, but utilizes existing communication channels to receive position reports.

8. Damage stability of a MODU is the stability _____.

- **after flooding**
- which exists when the wind speed is less than 50 knots
- at survival draft
- before collision

Note:

Damage stability refers to a vessel's stability following damage and flooding, not in intact conditions or under specific environmental factors.

9. The midships house of your break bulk ship is constructed with an interior stair tower from the main deck to the bridge. Under what circumstances may the doors from each deck to the stair tower be kept open when underway?

- They are to be kept closed at all times.
- They may be kept open if the ventilation or air conditioning system is shut down.
- They can be kept open if the Muster List ("Station Bill") has personnel designated to close them in case of fire.
- **They may be kept open if they can be automatically closed from the bridge.**

Note:

Stair tower doors may be kept open while underway only if equipped with an approved automatic-closing system controlled remotely, such as from the bridge, ensuring reliable closure during an emergency without relying on crew action.

10. How does good housekeeping prevent fires on a vessel?

- Allowing better access in an emergency
- Improving personnel qualifications
- **Eliminating potential fuel sources**
- Eliminating trip hazards

Note:

Good housekeeping prevents fires by eliminating potential fuel sources, directly addressing the 'fuel' component of the fire triangle. Fire prevention focuses on controlling fuel and ignition sources, and good housekeeping practices like cleaning spills and properly storing combustibles reduce the risk of fire ignition or spread. Options related to emergency access, personnel qualifications, and trip hazards address safety and response, not primary fire prevention.
