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Q381 - Deck Safety

1. 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.

2. Rotation of the steering wheel on the navigation bridge initiates oil pressure being applied to the steering gear rams by _____.

- regulating the oil flow with the six-way valve
- moving the automatic differential valve
- moving the follow up indicator which regulates the six-way valve
- **varying the angle of a tilting box or eccentricity of a floating ring**

Note:

Steering wheel rotation initiates oil pressure to the steering gear rams by varying the angle of a tilting box or eccentricity of a floating ring, which changes the hydraulic pump's displacement and thus its output pressure.

3. Under normal operating conditions, the rudder is hydraulically locked unless which situation occurs?

- The variable stroke pump is off stroke
- **A rudder order is given by the control system**
- An electric power system failure occurs at the steering gear
- The manual trick wheel is engaged for steering

Note:

The rudder is hydraulically locked under normal operation unless a rudder order is issued by the control system, which releases the hydraulic pressure and allows movement.

4. According to the Code of Federal Regulations, which of the following statements is correct regarding the steering gear on a vessel contracted for after June 9, 1995?

- On hydraulic type steering gears, a suitable arrangement of check valves in the main piping system may be considered as a means of steadying the rudder.
- **A separate auxiliary means of steering is not required where the main gear is of the dual power hydraulic type, having two independent pumps and connections.**
- Hydraulic structural rudder stops are mandatory.
- All of the above.

Note:

For vessels contracted after June 9, 1995, a dual-power hydraulic steering gear with two independent pumps and connections may replace a separate auxiliary steering gear, as stipulated in the Code of Federal Regulations.

5. 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.

6. Each distress signal and self-activated smoke signal must be replaced not later than the marked date of expiration, or not more than how many months from the date of manufacture?

- 30 months
- 36 months
- **42 months**
- 48 months

Note:

Distress and self-activating smoke signals must be replaced no later than their expiration date or within 42 months of the date of manufacture, whichever is earlier.

7. Which of the listed classes of fire would most likely occur in the engine room of a vessel?

- Classes "A" and "B"
- **Classes "B" and "C"**
- Classes "C" and "D"
- Classes "A" and "D"

Note:

Engine rooms contain flammable liquids and energized electrical equipment, making Class B and Class C fires the most likely.

8. When compared to low-expansion foam, a high-expansion foam will _____.

- be heavier
- **be drier**
- not cling to vertical surfaces
- be more heat resistant

Note:

High-expansion foam contains more air and less water per volume than low-expansion foam, resulting in a drier foam.

9. Recharging a previously used cartridge-operated dry chemical fire extinguisher is accomplished by _____.

- recharging the cartridge and refilling it with powder
- **replacing the propellant cartridge and refilling it with powder**
- puncturing the cartridge seal after installation
- authorized fire equipment servicing personnel only

Note:

Cartridge-operated dry chemical fire extinguishers are recharged by replacing the propellant cartridge and refilling the cylinder with dry chemical powder.

10. Fire dampers prevent the spread of fire by _____.

- radiation
- conduction
- **convection**
- direct contact

Note:

Fire dampers prevent the spread of fire by interrupting convective heat transfer through ventilation ducts.
