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Continuing Education Course #318  
Practical Forensic Engineering  
Property - Part 2

1. The signed and sealed forensic engineering report is a key document in the subrogation process.  
 a. True  
 b. False
2. The Scientific Method need not be applied to engineering investigations of appliance failures.  
 a. True  
 b. False
3. The temperature-pressure relief valve protects the domestic water system from street overpressure and some surge events.  
 a. True  
 b. False
4. The set pressure of a pressure reducing valve is 55-psi to 60-psi and the set pressure of a temperature-pressure relief valve is 150-psi.  
 a. True  
 b. False
5. Which failure is copper tubing and fittings not subject to:  
 a. Pitting corrosion;  
 b. Fitting solvent deterioration;  
 c. Freezing;  
 d. Dezincification;  
 e. All of the above.
6. The author thinks that CPVC is the best overall choice for domestic piping systems.  
 a. True  
 b. False
7. Polybutylene piping has been used extensively and has a long history of good performance.  
 a. True  
 b. False
8. Solenoid valves are used in which of the following applications:  
 a. Appliances  
 b. Aircraft  
 c. Industrial  
 d. Scientific  
 e. All of the above

9. PEX piping is always gray in color.

- a. True
- b. False

10. In a water inlet valve of the type used in the appliances under discussion, the pilot orifice is controlled by:

- a. The diaphragm;
- b. The spring;
- c. Solenoid closing force;
- d. The manual lock lever;
- e. The plunger.

11. When the system is pressurized, the normally closed solenoid valves are held closed by:

- a. The combination of the plunger and spring forces;
- b. Pressure on the bottom surface of the diaphragm;
- c. Pressure on the upper surface of the diaphragm;
- d. The pressure differential between the upper surface of the diaphragm and the lower surface of the diaphragm;
- e. The manual lock lever.
- f. When the system is pressurized, the valve is open.

12. Compression fittings that leak can be:

- a. Insufficiently inserted into the inlet or outlet;
- b. Under-tightened;
- c. Over-tightened;
- d. Previously used;
- e. a, b and c only;
- f. All of the above

13. An air pressure sensor controls the water fill shutoff of a top load washer.

- a. True
- b. False

14. A disconnected dryer vent in a crawlspace helps to dry out the crawlspace.

- a. True
- b. False

15. A Statute of Repose limits the time that:

- a. Evidence taken with a Chain of Custody during an engineering inspection can be retained;
- b. The length of time after which a subrogation action may be taken against a manufacturer;
- c. Product warranties have to be honored;
- d. The length of time after which a subrogation action may not be taken against a manufacturer;
- e. The length of time during which a subrogation action may not be taken against a manufacturer.

16. The Consumer Products Safety Commission can provide information on product defects and recalls.

- a. True
- b. False

17. Dishwashers should have an anti-siphon loop or air gap between the dishwasher and the disposal.

- a. True
- b. False

18. If one disassembles an appliance assembly, he may spoliage the evidence.

- a. True
- b. False

19. If a normally closed inlet valve allows water flow without power being applied:

- a. The valve is working properly;
- b. The valve is working improperly;
- c. The valve is closed;
- d. Both b. and c.
- e. None of the above.

20. If a normally closed solenoid valve coil is tested with a multimeter and no continuity is found, that valve will cause a leak.

- a. true
- b. False

21. Top Load washing machines generally require HE detergent.

- a. True
- b. False

22. The pressure sensor set level in the cycle selection (water level) control is:

- a. Adjusted by the air pressure from the air tube;
- b. Adjusted by the weight of the load being washed;
- c. Adjusted by the circuit board based on the sensed water temperature;
- d. Adjusted by the cycle selection;
- e. Not adjustable.

23. in a top load washer, the air dome is part of the;

- a. Vent system for the drain hose;
- b. Cooling system for the circuit board;
- c. Water fill level sensing system;
- d. Mixing system for inlet water flow;
- e. None of the above.

24. Don't open the filter housing without draining the sump.

- a. True
- b. False

25. Pressure reducing valves are closed when pressurized until downstream demand opens the valve.

- a. True
- b. False

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