
Part 2 – HVAC Fundamentals

Review Questions

1. **The purpose of HVAC is to provide:**
 - a. Heating
 - b. Cooling
 - c. Ventilation
 - d. All of the above

2. **Which of the following is not a component of an HVAC system?**
 - a. Fans.
 - b. Pumps.
 - c. Duct work.
 - d. Filters.
 - e. Light fixtures.
 - f. Dampers.

3. **Cooling towers require maintenance that includes:**
 - a. Water treatment to disinfect and prevent biological organisms such as legionella.
 - b. Checking air intakes for blockage
 - c. Cleaning light fixtures in the tower.
 - d. A and B

4. **Ventilation requirements for outside air are included in which standard?**
 - a. ASHRAE Standard 62.1
 - b. OSHA Standard 1910
 - c. NIOSH
 - d. Centers for Disease Control

5. **Where is the highest CO₂ concentration expected to be found?**
 - a. Supply Air Diffuser
 - b. Return or Exhaust Grill
 - c. Breathing Zone

6. **What is considered “fire drill” maintenance?**
 - a. Reactive maintenance
 - b. Preventative maintenance
 - c. Predictive maintenance

Fundamentals of Energy Efficient Building Operations



-
7. **What type of maintenance does not take a proactive approach?**
 - a. Reactive maintenance
 - b. Preventive maintenance
 - c. Predictive maintenance
 - d. Predictable maintenance

 8. **Which of the following tasks is not a maintenance task?**
 - a. Changing filters.
 - b. Lubricating bearings.
 - c. Treating water.
 - d. Adjusting start and stop time of equipment.

 9. **In addition to energy/resource savings, a well-run O&M program will ensure the comfort, health, and safety of building occupants through properly functioning equipment providing a healthy indoor environment.**
 - a. True
 - b. False

 10. **O&M measures....**
 - a. Are low cost / no cost opportunities.
 - b. require capital funds.
 - c. have immediate payback.
 - d. A & B
 - e. A & C
 - f. A, B & C