

Name \_\_\_\_\_

**MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.**

- 1) Winter presents a \_\_\_\_\_, where heat must be added for comfort. 1) \_\_\_\_\_
  - A) Heating load
  - B) Cooling load
  - C) Warm trend
  - D) Heavy load
  
- 2) The amount of water that air can hold depends on \_\_\_\_\_. 2) \_\_\_\_\_
  - A) Absolute pressure and temperature
  - B) Absolute pressure and dew point
  - C) The air temperature
  - D) Barometric pressure and evaporation
  
- 3) Heat intensity is measured in \_\_\_\_\_. 3) \_\_\_\_\_
  - A) BTUs
  - B) Degrees
  - C) RH
  - D) Calories
  
- 4) The air-conditioning process works through a fluid, called a \_\_\_\_\_ that continuously changes state from liquid to gas and back to liquid. 4) \_\_\_\_\_
  - A) Element
  - B) Conductor
  - C) Insulator
  - D) Refrigerant
  
- 5) The three different phases or states of matter include \_\_\_\_\_. 5) \_\_\_\_\_
  - A) Solid, water, and steam
  - B) Ice, liquid, and gas
  - C) Solid, liquid, and gas
  - D) Liquid, water, and steam
  
- 6) Two technicians are discussing heat movement. Technician A says that heat is a form of energy. Technician B says that heat travels from hot to cold. Which technician is correct? 6) \_\_\_\_\_
  - A) Technician A only
  - B) Technician B only
  - C) Both technicians
  - D) Neither technician
  
- 7) 100 degrees F is about \_\_\_\_\_ degrees C. 7) \_\_\_\_\_
  - A) 20
  - B) 45
  - C) 38
  - D) 50

8) The purpose of air conditioning is to \_\_\_\_\_. 8) \_\_\_\_\_  
A) Remove dust and pollen  
B) Remove moisture  
C) Remove heat  
D) All of the above.

9) Humans prefer temperatures that are between \_\_\_\_\_ and \_\_\_\_\_. 9) \_\_\_\_\_  
A) 55°F; 65°F  
B) 60°F; 70°F  
C) 68°F; 78°F  
D) 76°F; 86°F

10) Many late model vehicles use a(an) \_\_\_\_\_ to help clean the air in the vehicle. 10) \_\_\_\_\_  
A) Drip system  
B) Condenser filter  
C) Cabin filter  
D) None of these

## Answer Key

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- 1) A  
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- 2) C  
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- 3) B  
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- 4) D  
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- 5) C  
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- 6) C  
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- 7) C  
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- 8) D  
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- 9) C  
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- 10) C  
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