

*Automotive Heating and Air Conditioning, 9th Edition*

**Quiz 2B**

NAME \_\_\_\_\_

1. Technician A says that the freezing point of a substance is the temperature at which the substance changes state from a solid to a liquid. Technician B says that the freezing point of a substance is the temperature at which the substance changes state from a liquid to a solid. Which technician is correct?  
A) Technician A only  
B) Technician B only  
C) Both technicians A and B  
D) Neither technician A nor B 1. \_\_\_\_\_
  
2. The boiling point of water is \_\_\_\_\_ on the Fahrenheit scale.  
A) 0 degrees  
B) 32 degrees  
C) 100 degrees  
D) 212 degrees 2. \_\_\_\_\_
  
3. The air-conditioning process works through a fluid, called a/an \_\_\_\_\_ that continuously changes state from liquid to gas and back to liquid.  
A) element  
B) conductor  
C) insulator  
D) refrigerant 3. \_\_\_\_\_
  
4. The three different phases or states of matter include \_\_\_\_\_.  
A) solid, water, and steam  
B) ice, liquid, and gas  
C) solid, liquid, and gas  
D) liquid, water, and steam 4. \_\_\_\_\_
  
5. An air-conditioning system cools the interior of the vehicle by \_\_\_\_\_.  
A) moving the heat from inside the vehicle to outside the vehicle  
B) blowing cold air into the interior  
C) moving heat from inside of the vehicle to the engine cooling system  
D) using the engine to move air 5. \_\_\_\_\_
  
6. A measurement of the actual weight of water in a given volume of air is \_\_\_\_\_.  
A) absolute humidity  
B) dew point  
C) relative humidity  
D) absolute pressure 6. \_\_\_\_\_
  
7. The freezing point of water is \_\_\_\_\_ on the Celsius scale.  
A) 100 degrees  
B) 0 degrees  
C) 32 degrees  
D) 212 degrees 7. \_\_\_\_\_

8. Heat intensity is measured in \_\_\_\_\_.

- A) BTUs
- B) degrees
- C) RH
- D) calories

8. \_\_\_\_\_

9. A psychrometer measures \_\_\_\_\_.

- A) temperature
- B) relative humidity
- C) amount of heat
- D) radiation

9. \_\_\_\_\_

10. Twenty degrees Celsius is about how many degrees Fahrenheit?

- A) 25
- B) 45
- C) 65
- D) 85

10. \_\_\_\_\_

## Answer Key

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1. B  
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2. D  
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3. D  
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4. C  
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5. A  
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6. A  
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