

*Automotive Heating and Air Conditioning, 9th Edition*

**Quiz 14B**

NAME \_\_\_\_\_

1. A refrigerant leak can be detected by \_\_\_\_\_.  
A) looking for oily areas (visual inspection)  
B) using an electronic leak detector  
C) using a soap solution and looking for bubbles  
D) Any of the above  
1. \_\_\_\_\_
  
2. Water discovered on the floor on the passenger side of a vehicle is an indication of what problem?  
A) Clogged evaporator drain  
B) Clogged condenser  
C) Leaking refrigerant  
D) Defective AC compressor  
2. \_\_\_\_\_
  
3. A "fin comb" is used to \_\_\_\_\_.  
A) tighten an accessory drive belt  
B) straighten and align cooling fins on a condenser or radiator  
C) clean debris from a dash vent  
D) fix the fins on the water pump  
3. \_\_\_\_\_
  
4. AC vent temperature at the center outlet should be \_\_\_\_\_.  
A) 55°F–65°F (13°C–18°C)  
B) 45°F–55°F (7°C–13°C)  
C) 35°F–45°F (2°C–7°C)  
D) 25°F–35°F (4°C–2°C)  
4. \_\_\_\_\_
  
5. An AC system is being checked for proper cooling. Technician A says to turn on the AC system and operate the engine at 1500 to 2000 RPM for 5 to 10 minutes before checking the outlet temperature. Technician B says that the temperature can be checked as soon as 1500 RPM is reached. Which technician is correct?  
A) Technician A only  
B) Technician B only  
C) Both technicians A and B  
D) Neither technician A nor B  
5. \_\_\_\_\_
  
6. Cabin filters may be treated with \_\_\_\_\_ to help reduce odors.  
A) ozone  
B) hydrocarbons  
C) talcum powder  
D) charcoal  
6. \_\_\_\_\_
  
7. AC compressor drive belt tension can be measured by \_\_\_\_\_.  
A) deflection  
B) marks on the tensioner  
C) using a belt tension gauge  
D) Any of the above  
7. \_\_\_\_\_

8. The compressor is working if the \_\_\_\_\_ of the compressor clutch is rotating. 8. \_\_\_\_\_
- A) pulley
  - B) belt
  - C) center
  - D) muffler
9. When the HVAC controls are placed in the "heat" position, where does the air flow? 9. \_\_\_\_\_
- A) From the floor vents
  - B) From the dash vents
  - C) From the floor and windshield (defrost) vents
  - D) To the outside dash vents only
10. The compressor clutch makes a \_\_\_\_\_ sound when it is turned on. 10. \_\_\_\_\_
- A) skipping
  - B) clicking
  - C) rotating
  - D) muffled

## Answer Key

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