

*Automotive Heating and Air Conditioning, 9th Edition*

**Quiz 14A**

NAME \_\_\_\_\_

1. AC compressor drive belt tension can be measured by \_\_\_\_\_. 1. \_\_\_\_\_
  - A) deflection
  - B) marks on the tensioner
  - C) using a belt tension gauge
  - D) Any of the above
  
2. An airflow (blend) door may be broken if \_\_\_\_\_. 2. \_\_\_\_\_
  - A) there is a clicking noise from the actuator motor assembly as it tries to move a broken door
  - B) outlet temperature can change from hot to cold or from cold to hot at any time especially when cornering
  - C) there is a change in the temperature when the fan speed is changed
  - D) Any of the above
  
3. The compressor clutch makes a \_\_\_\_\_ sound when it is turned on. 3. \_\_\_\_\_
  - A) skipping
  - B) clicking
  - C) rotating
  - D) muffled
  
4. Cabin filters can be replaced and are located by an access panel \_\_\_\_\_. 4. \_\_\_\_\_
  - A) under the hood
  - B) under the dash (usually behind the glove box)
  - C) under the vehicle
  - D) Either A or B
  
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? 5. \_\_\_\_\_
  - A) Technician A only
  - B) Technician B only
  - C) Both technicians A and B
  - D) Neither technician A nor B
  
6. Heater hoses often develop leaks \_\_\_\_\_. 6. \_\_\_\_\_
  - A) in the center of the hose
  - B) when coolant is used
  - C) near the hose clamps
  - D) when there is a bad ground
  
7. A refrigerant leak can be detected by \_\_\_\_\_. 7. \_\_\_\_\_
  - 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

8. When a vehicle AC system is set to "MAX" there is an increase in fan noise inside the vehicle. Which of these could be the cause? 8. \_\_\_\_\_
- A) Thermal acceleration noise
  - B) Normal sound when the recirculation door opens
  - C) "MAX" setting automatically increases the fan speed
  - D) None of these
9. AC vent temperature at the center outlet should be \_\_\_\_\_. 9. \_\_\_\_\_
- 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)
10. The compressor is working if the \_\_\_\_\_ of the compressor clutch is rotating. 10. \_\_\_\_\_
- A) pulley
  - B) belt
  - C) center
  - D) muffler

## Answer Key

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