

Name \_\_\_\_\_

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

- 1) Which sensor might use an aspirator tube? 1) \_\_\_\_\_  
A) Inside vehicle temperature  
B) Outside air temperature  
C) Discharge air temperature  
D) Evaporator outlet temperature
  
- 2) Which of these is an example of a three-position actuator? 2) \_\_\_\_\_  
A) Bi-level air door  
B) Blend door  
C) Recirculation door  
D) None of these is correct
  
- 3) Which of these ATC output devices provides a feedback signal to the electronic control module (ECM)? 3) \_\_\_\_\_  
A) Blend door actuator  
B) Blower motor control  
C) Mode air door motor  
D) Air inlet door vacuum motor
  
- 4) Which of the following is NOT a sensor in an ATC system? 4) \_\_\_\_\_  
A) Sun load sensor  
B) Passenger sensor  
C) In-car temperature sensor  
D) Ambient air temperature sensor
  
- 5) Automatic temperature control (ATC) diagnosis includes \_\_\_\_\_. 5) \_\_\_\_\_  
A) Verify customer concern  
B) Perform a visual inspection  
C) Check for stored diagnostic trouble codes  
D) All of the above
  
- 6) Where is the ambient temperature sensor usually mounted? 6) \_\_\_\_\_  
A) In front of the radiator  
B) At the intake cowl  
C) In the climate control plenum  
D) None of these is correct
  
- 7) An actuator can be capable of how many positions? 7) \_\_\_\_\_  
A) Two  
B) Three  
C) Variable  
D) All of these

- 8) Which component is used as a feedback circuit? 8) \_\_\_\_\_
- A) In-car temperature sensor
  - B) Ambient air temperature sensor
  - C) Sun load sensor
  - D) Potentiometer
- 9) What is the purpose of a compressor speed sensor? 9) \_\_\_\_\_
- A) To allow the ECM to control compressor speed
  - B) So the ECM can control high-side pressure
  - C) So the ECM can control low-side pressure
  - D) To let the ECM know if the compressor is turning
- 10) Technician A says that the HVAC doors in an automatic system may be cable operated. Technician B says that the HVAC doors in an automatic system may be operated by electric servos. Which technician is correct? 10) \_\_\_\_\_
- A) Technician A only
  - B) Technician B only
  - C) Both technicians
  - D) Neither technician

## Answer Key

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