

Name \_\_\_\_\_

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

- 1) Which of the following is NOT a component of an automatic temperature control system? 1) \_\_\_\_\_
  - A) Control head
  - B) Temperature sensors
  - C) Electrically operated actuators
  - D) All of these are components of an automatic temperature control system
  
- 2) A feedback potentiometer is used to \_\_\_\_\_. 2) \_\_\_\_\_
  - A) Provide feedback to the driver as to where the controls are set
  - B) Provide feedback to the controller as to the location of a door or valve
  - C) Give temperature information about the outside air temperature to the dash display
  - D) Any of the above depending on the exact make and model of vehicle
  
- 3) What is the purpose of a compressor speed sensor? 3) \_\_\_\_\_
  - 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
  
- 4) An ATC system has the ability to automatically \_\_\_\_\_. 4) \_\_\_\_\_
  - A) Move the temperature-blend door
  - B) Adjust the blower speed
  - C) Change the function door setting
  - D) All of these
  
- 5) The control module used for automatic climatic control is called \_\_\_\_\_. 5) \_\_\_\_\_
  - A) ECM
  - B) BCM
  - C) HVAC control module
  - D) Any of the above, depending on the make and model of vehicle
  
- 6) While diagnosing an A/C concern the scan tool reads "Inside Air Temp = 90°" and "Ambient Temp = -38°". Shop temperature is 87°. What should the technician do? 6) \_\_\_\_\_
  - A) Move the vehicle outside to warm it up
  - B) Check the ambient sensor and connections
  - C) Clean the inside air temperature sensor
  - D) Replace the ambient sensor
  
- 7) Which of these is an example of a three-position actuator? 7) \_\_\_\_\_
  - A) Bi-level air door
  - B) Blend door
  - C) Recirculation door
  - D) None of these is correct

- 8) Where is the ambient temperature sensor usually mounted? 8) \_\_\_\_\_
- A) In front of the radiator
  - B) At the intake cowl
  - C) In the climate control plenum
  - D) None of these is correct
- 9) Which component is used as a feedback circuit? 9) \_\_\_\_\_
- A) In-car temperature sensor
  - B) Ambient air temperature sensor
  - C) Sun load sensor
  - D) Potentiometer
- 10) Which sensor might use an aspirator tube? 10) \_\_\_\_\_
- A) Inside vehicle temperature
  - B) Outside air temperature
  - C) Discharge air temperature
  - D) Evaporator outlet temperature

## Answer Key

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1) D

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2) B

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3) D

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4) D

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5) D

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6) B

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7) A

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8) A

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9) D

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10) A

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