

Automotive Heating and Air Conditioning, 9th Edition

Quiz 12A

NAME _____

1. Which of these ATC output devices provides a feedback signal to the electronic control module (ECM)? 1. _____
 - A) Blend door actuator
 - B) Blower motor control
 - C) Mode air door motor
 - D) Air inlet door vacuum motor

2. An actuator can be capable of how many positions? 2. _____
 - A) Two
 - B) Three
 - C) Variable
 - D) All of these

3. Which sensor might use an aspirator tube? 3. _____
 - A) Inside vehicle temperature
 - B) Outside air temperature
 - C) Discharge air temperature
 - D) Evaporator outlet temperature

4. Automatic temperature control (ATC) diagnosis includes _____. 4. _____
 - A) verify customer concern
 - B) perform a visual inspection
 - C) check for stored diagnostic trouble codes
 - D) All of the above

5. While diagnosing an A/C concern the scan tool reads "Inside Air Temp = 90°F" and "Ambient Temp = -40°F". Shop temperature is 87°F. What should the technician do? 5. _____
 - 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

6. A dual-zone A/C system allows for different _____ for the driver and passenger. 6. _____
 - A) air flow
 - B) fan speeds
 - C) compressor speeds
 - D) temperatures

7. What is the purpose of a compressor speed sensor? 7. _____
 - 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

8. The HVAC control module uses _____ to control high current loads in the A/C system. 8. _____
- A) relays
 - B) vacuum hoses
 - C) LEDs
 - D) switches
9. Which of the following is true regarding the cabin air filter? 9. _____
- A) It is mounted in the incoming air stream from the cowl intake
 - B) Filter restrictions can reduce the volume of air entering the passenger compartment
 - C) Both A and B are correct
 - D) Neither A nor B is correct
10. Where is the ambient temperature sensor usually mounted? 10. _____
- A) In front of the radiator
 - B) At the intake cowl
 - C) In the climate control plenum
 - D) None of these is correct

Answer Key

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3. A
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