

Name: _____

Date: _____

1. What is the primary function of the engine coolant temperature (ECT) sensor in an ATC system?
 - A. To control the blower speed
 - B. To measure the temperature of the coolant
 - C. To regulate the air inlet door
 - D. To detect the cabin temperature

2. Which sensor is typically used to adjust the HVAC system based on the sun's position in vehicles equipped with GPS?
 - A. Ambient temperature sensor
 - B. In-vehicle temperature sensor
 - C. Sun load sensor
 - D. Air quality sensor

3. What type of sensor is commonly used for measuring outside air temperature in ATC systems?
 - A. Photodiode
 - B. Potentiometer
 - C. Negative temperature coefficient (NTC) thermistor
 - D. Positive temperature coefficient (PTC) thermistor

4. What is the role of the relative humidity (RH) sensor in an ATC system?
 - A. To control the air conditioning compressor operation
 - B. To detect hydrocarbons and ozone levels
 - C. To measure the level of humidity inside the vehicle
 - D. To adjust the sun load sensor

5. In an ATC system, what does a Diagnostic Trouble Code (DTC) B0248 indicate?
 - A. Outside Air Temperature Sensor Circuit Range/Performance
 - B. Mode Door Inoperative Error
 - C. Air/Inlet Door Inoperative Error
 - D. HVAC Actuator Circuit

6. What is the purpose of an aspirator tube in the in-vehicle temperature sensor?
 - A. To measure the temperature of the air entering the cabin
 - B. To detect the presence of hydrocarbons in the cabin air
 - C. To regulate the temperature of the air blown by the HVAC system
 - D. To create airflow past the sensor for accurate temperature measurement

7. Which component in an ATC system is responsible for releasing heat the vehicle outside during summer?
 - A. Evaporator
 - B. Compressor
 - C. Blower motor
 - D. Condenser

8. What does a sun load sensor primarily detect in an ATC system?
- A. The level of carbon dioxide inside the cabin
 - B. The angle and intensity of sunlight entering the vehicle
 - C. The temperature of the air outside the vehicle
 - D. The humidity level inside the vehicle
9. What is indicated by a Diagnostic Trouble Code (DTC) B0164 in an ATC system?
- A. Passenger Compartment Temperature Sensor Circuit Range/Performance
 - B. Ambient Air Temperature Sensor Circuit
 - C. Sun Load Sensor Circuit
 - D. HVAC Actuator Circuit
10. What is the function of a dual-position actuator in an ATC system?
- A. To control the direction of airflow within the system
 - B. To regulate the temperature of air entering the cabin
 - C. To adjust the blower speed
 - D. To switch between heating and cooling modes

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Chapter 63

Multiple Choice Quiz B

Answer Key

1. B

2. C

3. C

4. C

5. B

6. D

7. D

8. B

9. A

10. A