

Automotive Heating and Air Conditioning, 9th Edition

Quiz 12B

NAME _____

1. Which of the following is NOT a sensor in an ATC system? 1. _____
 - A) Sun load sensor
 - B) Passenger sensor
 - C) In-car temperature sensor
 - D) Ambient air temperature sensor

2. 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? 2. _____
 - 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

3. Where is the ambient temperature sensor usually mounted? 3. _____
 - A) In front of the radiator
 - B) At the intake cowl
 - C) In the climate control plenum
 - D) None of these is correct

4. An actuator can be capable of how many positions? 4. _____
 - A) Two
 - B) Three
 - C) Variable
 - D) All of these

5. Which component is used as a feedback circuit? 5. _____
 - A) In-car temperature sensor
 - B) Ambient air temperature sensor
 - C) Sun load sensor
 - D) Potentiometer

6. An ATC system has the ability to automatically _____. 6. _____
 - A) move the temperature-blend door
 - B) adjust the blower speed
 - C) change the function door setting
 - D) All of these

7. Automatic temperature control (ATC) diagnosis includes _____. 7. _____
 - A) verify customer concern
 - B) perform a visual inspection
 - C) check for stored diagnostic trouble codes
 - D) All of the above

8. Which of these is an example of a three-position actuator? 8. _____
A) Bi-level air door
B) Blend door
C) Recirculation door
D) None of these is correct

9. What is the most common type of sunload sensor? 9. _____
A) Potentiometer
B) NTC thermistor
C) Photo diode
D) PTC thermistor

10. Which of the following is NOT a component of an automatic temperature control system? 10. _____
A) Control head
B) Temperature sensors
C) Electrically operated actuators
D) All of these are components of an automatic temperature control system

Answer Key

Testname: AHAC9_12B

1. B
Page Ref: 168-170
2. B
Page Ref: 179
3. A
Page Ref: 167
4. D
Page Ref: 172
5. D
Page Ref: 172
6. D
Page Ref: 167
7. D
Page Ref: 177
8. A
Page Ref: 172
9. C
Page Ref: 69
10. D
Page Ref: 167-171