

Name: _____

Date: _____

1. When performing an ECT test using a scan tool, what should the temperature display read when the ECT sensor connector is unplugged?
 - A. Approximately 40°C
 - B. Exactly 0°C
 - C. About 285°F
 - D. No specific temperature

2. If an ECT sensor is suspected to be faulty, what is the maximum acceptable difference between the actual coolant temperature and the temperature indicated on the scan tool?
 - A. 5°F
 - B. 10°F
 - C. 20°F
 - D. There is no acceptable difference

3. What is indicated by a diagnostic trouble code P0116 for the ECT sensor?
 - A. Sensor 1 Circuit High Input
 - B. Sensor 1 Circuit Low Input
 - C. Engine Coolant Temperature Sensor 1 Circuit Range/Performance
 - D. Engine Coolant Temperature Sensor 2 Circuit Malfunction

4. What is a stepped ECT circuit used for in some vehicles?
 - A. To decrease the accuracy of the engine coolant temperature reading
 - B. To increase the resistance of the ECT sensor at all temperatures
 - C. To reduce the number of resistors in the PCM
 - D. To give the PCM a more accurate reading of the engine coolant temperature

5. At what temperature does the transition between steps usually occur in a stepped ECT circuit?
 - A. Below 120°F
 - B. Above 120°F
 - C. At 240°F
 - D. Exactly at 120°F

6. What is the consequence of a poor connection (high resistance) at the wiring connector of an ECT sensor?
 - A. The computer will supply a leaner-than-normal fuel mixture
 - B. The computer will supply a richer-than-normal fuel mixture
 - C. The engine will overheat
 - D. The cooling fan will malfunction

7. How can the ECT sensor affect the idle air control (IAC) position?
 - A. It has no effect on the IAC position
 - B. It determines the IAC position based on engine temperature
 - C. It controls the IAC position based on air temperature
 - D. It adjusts the IAC position according to the oil temperature

8. What should be done before replacing the ECT sensor to ensure the engine is operating at the correct temperature?

- A. Check that the cooling fan has cycled twice
- B. Replace the thermostat
- C. Flush the coolant system
- D. Inspect the radiator for leaks

9. What is the significance of the ECT sensor's location in relation to the thermostat housing?

- A. It is purely for convenience of access
- B. It ensures the sensor is exposed to the highest temperatures
- C. It provides the most accurate reading of the coolant temperature
- D. It has no particular significance

10. When testing the ECT sensor using a digital multimeter set to DC volts, what is expected as the engine temperature increases?

- A. The voltage reading increases
- B. The voltage reading decreases
- C. The voltage reading remains constant
- D. The voltage reading fluctuates

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Chapter 71

Multiple Choice Quiz B

Answer Key

1. A

2. B

3. C

4. D

5. D

6. B

7. B

8. A

9. C

10. B