

Name: _____

Date: _____

1. What is the expected voltage reading from a TP sensor at idle with the ignition on and engine off?
 - A. 0.1 volts
 - B. 0.5 volts
 - C. 1.0 volts
 - D. 4.5 volts

2. When testing a TP sensor, what indicates a good sensor on a waveform recorded on a DSO?
 - A. Presence of glitches
 - B. Fluctuating transitions
 - C. Clean transitions without glitches
 - D. A constant voltage reading

3. Which of the following is NOT a wire typically found on a TP sensor?
 - A. 5-volt reference feed wire
 - B. Signal return (ground wire)
 - C. Voltage signal wire
 - D. 12-volt power wire

4. What should the TP sensor voltage be at wide-open throttle (WOT)?
 - A. 0.5 volts
 - B. 1.0 volts
 - C. 4.5 volts
 - D. 5.0 volts

5. How are TP sensors typically adjusted?
 - A. By changing the engine's RPM
 - B. By reprogramming the PCM
 - C. By replacing the sensor with a new one
 - D. By loosening their retaining screws and moving the sensor

6. What is the purpose of the TP sensor in relation to fuel delivery?
 - A. To decrease fuel supply at all throttle positions
 - B. To signal the PCM to reduce fuel when the throttle is closed
 - C. To maintain a constant air-fuel mixture regardless of throttle position
 - D. To signal the PCM to pulse additional fuel when the throttle is depressed

7. What is a typical diagnostic trouble code (DTC) procedure for a TP sensor?
 - A. Replacing the sensor if the voltage reading is smooth
 - B. Ignoring voltage irregularities as they are common
 - C. Replacing the sensor if erratic voltage readings are obtained
 - D. Adjusting the sensor to read higher voltages at idle

8. Using a scan tool, what is the expected TP sensor voltage display with the key on and engine off?
- A. 0.2 volts
 - B. 0.5 volts
 - C. 1.0 volts
 - D. 1.2 volts
9. What is the primary function of the Engine Coolant Temperature (ECT) sensor in computer-equipped vehicles?
- A. To provide the computer with engine temperature for fuel mixture and ignition timing
 - B. To monitor the oil temperature
 - C. To control the air conditioning system
 - D. To regulate the transmission fluid temperature
10. What is the typical behavior of an ECT sensor's resistance as the coolant temperature increases?
- A. Resistance increases
 - B. Resistance remains constant
 - C. Resistance decreases
 - D. Resistance fluctuates unpredictably

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Multiple Choice Quiz A

Answer Key

1. B

2. C

3. D

4. C

5. D

6. D

7. C

8. B

9. A

10. C