

Name _____

MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.

- 1) A voltage drop of more than 0.2 volts between the TP sensor ground and engine ground indicates a bad _____. 1) _____
 - A) oxygen (O2S) sensor
 - B) IAT sensor
 - C) ECT sensor
 - D) PCM ground
- 2) Technician A says that the TP sensor signal voltage should be about 0.5 volt at idle and increase to about 2.5 volts at wide-open throttle (WOT). Technician B says that a TP sensor can be tested using a DMM (digital multimeter), DSO (digital storage oscilloscope), or scan tool. Which technician is correct? 2) _____
 - A) Technician A only
 - B) Technician B only
 - C) Both technicians A and B
 - D) Neither technician A nor B
- 3) A typical TP sensor registers about how many volts at WOT (wide open throttle)? 3) _____
 - A) 4.5
 - B) 0.5
 - C) 1.3–3.0
 - D) 13–15
- 4) Technician A says that the 3 wires on the TP sensor include a 5-volt reference voltage from the PCM Technician B says that a TP sensor is a three-wire variable resistor called a rheostat. Which technician is correct? 4) _____
 - A) Technician A only
 - B) Technician B only
 - C) Both technicians A and B
 - D) Neither technician A nor B
- 5) A technician attaches one lead of a digital voltmeter to the ground terminal of the TP sensor and other meter lead to battery negative terminal. The ignition is turned on, engine off and the meter displays 37.3 mV. Technician A says that this is the signal voltage and is a little low. Technician B says that the TP sensor ground circuit has excessive resistance. Which technician is correct? 5) _____
 - A) Technician A only
 - B) Technician B only
 - C) Both technicians
 - D) Neither technician
- 6) Which wire on a TP sensor should be back probed to check for a voltage signal to the PCM? 6) _____
 - A) 5-volt reference (Vref)
 - B) Signal wire
 - C) Ground wire
 - D) Meter should be connected between 5-volt reference and ground

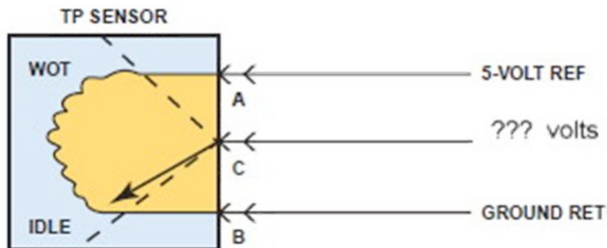
7) A TP sensor is what type of sensor?

7) _____

- A) Rheostat
- B) Voltage generating
- C) Potentiometer
- D) Piezoelectric

8) With the TP sensor in the position shown, what voltage would be expected at the signal wire (C)?

8) _____



- A) 0.5 volts
- B) 5.0 volts
- C) 2.5 volts
- D) Not enough information

9) A TP sensor is being backprobed. The meter reading shows that the technician is measuring _____.

9) _____



- A) Reference voltage
- B) Signal voltage
- C) Idle voltage
- D) WOT voltage

10) Which sensor is used to measure the position of the throttle?

10) _____

- A) O2S
- B) ECT sensor
- C) Engine MAP sensor
- D) TP sensor

Answer Key

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1) D

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2) B

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3) A

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4) A

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5) D

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6) B

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7) C

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8) A

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9) A

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10) D

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