

Name _____

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

- 1) A technician attaches one lead of a digital voltmeter to the ground terminal of the TP sensor and other meter lead to the negative terminal of the battery. 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? 1) _____
 - A) Technician A only
 - B) Technician B only
 - C) Both technicians
 - D) Neither technician

- 2) After a TP sensor has been tested using the MIN/MAX function on a DMM, a reading of 5 volts is displayed. What does this reading indicate? 2) _____
 - A) The TP sensor is open at one point during the test
 - B) The TP sensor is shorted
 - C) The TP sensor signal is shorted to 5-volt reference
 - D) Both B and C are possible

- 3) 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? 3) _____
 - A) Technician A only
 - B) Technician B only
 - C) Both technicians
 - D) Neither technician

- 4) Which sensor is generally considered to be the electronic accelerator pump of a fuel injected engine? 4) _____
 - A) O2S
 - B) ECT sensor
 - C) Engine MAP sensor
 - D) TP sensor

- 5) After a TP sensor has been tested using the MIN/MAX function on a DMM, a reading of zero volts is displayed. Which of these does this reading indicate? 5) _____
 - A) The TP sensor is open at one point during the test
 - B) The TP sensor is shorted
 - C) The TP sensor signal is shorted to 5-volt reference
 - D) Both B and C are possible

- 6) The TP sensor affects the operation of all of these EXCEPT _____. 6) _____
- A) Torque converter clutch operation
 - B) Clear flood mode operation
 - C) Determining rich and lean air-fuel mixtures
 - D) Air conditioning compressor operation

- 7) A TP sensor is being backprobed. The meter reading shows that the technician is measuring _____. 7) _____



- A) Reference voltage
 - B) Signal voltage
 - C) Idle voltage
 - D) WOT voltage
- 8) The TP sensor indicates the engine is idling but the MAP sensor indicates the engine is under a heavy load. This could cause a DTC to set for the _____. 8) _____
- A) TP sensor
 - B) MAP sensor
 - C) Either A or B
 - D) Neither A nor B
- 9) Which of the following is a three-wire variable sensor? 9) _____
- A) Rheostat
 - B) Thermistor
 - C) Potentiometer
 - D) Coolant temperature sensor (CTS)

- 10) Technician A says that the 3 wires on the TP sensor include a 5-volt reference voltage from PCM, plus the signal wire to PCM, and ground. Technician B says that the TP sensor is used by the PCM to determine torque converter engagement and transmission shift points. Which technician is correct? 10) _____
- A) Technician A only
 - B) Technician B only
 - C) Both technicians
 - D) Neither technician

Answer Key

Testname: ENGINEPERF5_21A

1) D

Page Ref: 349

2) C

Page Ref: 349

3) B

Page Ref: 347-348

4) D

Page Ref: 346

5) A

Page Ref: 349

6) C

Page Ref: 347-348

7) A

Page Ref: 349

8) C

Page Ref: 347

9) C

Page Ref: 346

10) C

Page Ref: 347