

Name \_\_\_\_\_

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

- 1) Which sensor is used to measure the position of the throttle? 1) \_\_\_\_\_
  - A) O2S
  - B) ECT sensor
  - C) Engine MAP sensor
  - D) TP sensor
  
- 2) Most TP sensors have how many wires? 2) \_\_\_\_\_
  - A) 1
  - B) 2
  - C) 3
  - D) 4
  
- 3) 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? 3) \_\_\_\_\_
  - 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
  
- 4) 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? 4) \_\_\_\_\_
  - A) Technician A only
  - B) Technician B only
  - C) Both technicians A and B
  - D) Neither technician A nor B
  
- 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) 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? 6) \_\_\_\_\_
  - A) Technician A only
  - B) Technician B only
  - C) Both technicians A and B
  - D) Neither technician A nor B

- 7) A TP sensor is what type of sensor? 7) \_\_\_\_\_  
A) Rheostat  
B) Voltage generating  
C) Potentiometer  
D) Piezoelectric
- 8) 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? 8) \_\_\_\_\_  
A) Technician A only  
B) Technician B only  
C) Both technicians A and B  
D) Neither technician A nor B
- 9) 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 \_\_\_\_\_. 9) \_\_\_\_\_  
A) TP sensor  
B) MAP sensor  
C) Either A or B  
D) Neither A nor B
- 10) A P0122 DTC is retrieved using a scan tool. This DTC means \_\_\_\_\_. 10) \_\_\_\_\_  
A) The TP sensor voltage is low  
B) The TP sensor could be shorted to ground  
C) The TP sensor signal circuit could be shorted to ground  
D) All of the above are correct.

## Answer Key

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1) D

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2) C

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3) C

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4) B

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5) A

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6) A

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7) C

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8) C

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9) C

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10) D

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