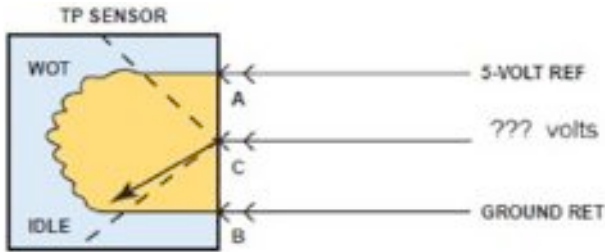


Name _____

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

1) What voltage will be measured at terminal "C" as shown?

1) _____



- A) 4.5 volts
- B) 0.5 volts
- C) 12 volts
- D) Not enough information

2) Most TP sensors have how many wires?

2) _____

- A) 1
- B) 2
- C) 3
- D) 4

3) The third terminal of a potentiometer is attached to a movable contact that slides across the resistor to vary _____.

3) _____

- A) signal voltage
- B) vacuum
- C) cable tension
- D) spark voltage

4) Typical TP sensor voltage at idle is about _____.

4) _____

- A) 2.5 to 2.8 volts
- B) 0.5 volt or 10% of WOT sensor voltage
- C) 1.5 to 2.8 volts
- D) 13.5 to 15.0 volts

5) A _____ is a variable-resistance sensor with three terminals.

5) _____

- A) rheostat
- B) potentiometer
- C) thermistor
- D) thyristor

- 6) 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 a ground wire to the engine block. Technician B says that the TP sensor is used by the PCM to determine torque converter engagement and transmission shift points. Who is right? 6) _____
- A) Technician A only
 - B) Technician B only
 - C) Both technicians
 - D) Neither technician
- 7) What type of sensor is used to measure the position of the throttle? 7) _____
- A) Negative temperature coefficient (NTC) thermistor
 - B) Positive temperature coefficient (PTC) thermistor
 - C) Engine speed (RPM)
 - D) Potentiometer
- 8) The torque converter clutch will release when any movement of the TP sensor is detected. 8) _____
- A) True
 - B) False
- 9) After a TP sensor has been tested using the min/max function on a DMM, a reading of zero volts is displayed. What does this reading indicate? 9) _____
- 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.
- 10) The TP sensor affects the operation of all of these, EXCEPT _____. 10) _____
- A) torque converter clutch operation
 - B) clear flood mode operation
 - C) correcting for rich and lean air-fuel mixtures
 - D) air-conditioning compressor clutch operation