

Name _____

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

- 1) Technician A says that a heavy engine load results in high intake manifold vacuum and a high MAP sensor signal voltage. Technician B says that a MAP sensor uses a perfect vacuum (zero absolute pressure) in the sensor to determine the pressure. Which technician is correct? 1) _____
 - A) Technician A only
 - B) Technician B only
 - C) Both technicians
 - D) Neither technician

- 2) Which is NOT a purpose or function of the MAP sensor? 2) _____
 - A) Measures engine load
 - B) Measures engine speed
 - C) Calculates fuel delivery based on altitude
 - D) Helps diagnose the EGR system

- 3) Which design of MAP sensor is used on turbocharged or supercharged engines? 3) _____
 - A) Manifold absolute pressure (MAP) sensor
 - B) Manifold absolute pressure sensor plus barometric absolute pressure (BARO) sensor
 - C) Barometric and manifold absolute pressure sensors combined (BMAP)
 - D) A MAP sensor calibrated for pressures above atmospheric

- 4) The opening of the EGR valve pintle does NOT cause a change in the MAP sensor reading. This could cause _____. 4) _____
 - A) An EGR flow rate DTC to set
 - B) The transmission to downshift
 - C) The engine to stall
 - D) A high idle speed

- 5) Technician A says that a MAP sensor can be tested by visual inspection, testing the output using a digital meter, or a scan tool. Technician B says that a light engine load results in low intake manifold vacuum and a high MAP sensor signal voltage. Which technician is correct? 5) _____
 - A) Technician A only
 - B) Technician B only
 - C) Both technicians
 - D) Neither technician

- 6) The MAP and BARO sensor may be the same sensor. 6) _____
 - A) True
 - B) False

- 7) A P0107 DTC is being discussed. Technician A says that a defective MAP sensor could be the cause. Technician B says that a MAP sensor signal wire shorted-to-ground could be the cause. Which technician is correct? 7) _____
- A) Technician A only
 - B) Technician B only
 - C) Both technicians
 - D) Neither technician
- 8) Vacuum is measured in what unit of pressure? 8) _____
- A) pounds per square inch (PSI)
 - B) Inches of mercury (inch Hg)
 - C) PSIA
 - D) PSIG
- 9) A P0108 DTC is being discussed. Technician A says a MAP sensor O-ring damaged or missing could be the cause. Technician B says the MAP sensor signal circuit shorted-to-ground could be the cause. Which technician is correct? 9) _____
- A) Technician A only
 - B) Technician B only
 - C) Both technicians
 - D) Neither technician
- 10) The MAP sensor is used to check the operation of the _____ on OBD II vehicles. 10) _____
- A) TP sensor
 - B) EGR system
 - C) Backup system
 - D) Main system

Answer Key

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1) C

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2) B

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3) D

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4) A

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5) A

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6) A

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7) C

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8) B

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9) A

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10) B

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