

Name \_\_\_\_\_

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

- 1) 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? 1) \_\_\_\_\_
  - A) Technician A only
  - B) Technician B only
  - C) Both technicians
  - D) Neither technician
  
- 2) A P0106 DTC is being discussed. Technician A says a damaged or missing MAP sensor O-ring could be the cause. Technician B says a defective MAP sensor could be the cause. Which technician is correct? 2) \_\_\_\_\_
  - A) Technician A only
  - B) Technician B only
  - C) Both technicians
  - D) Neither technician
  
- 3) The MAP sensor is used to check the operation of the \_\_\_\_\_ on OBD II vehicles. 3) \_\_\_\_\_
  - A) TP sensor
  - B) EGR system
  - C) Backup system
  - D) Main system
  
- 4) Which statement is false? 4) \_\_\_\_\_
  - A) Absolute pressure is equal to barometric pressure plus intake manifold vacuum
  - B) A decrease in manifold vacuum means an increase in manifold pressure
  - C) The MAP sensor compares manifold vacuum to a perfect vacuum
  - D) Barometric pressure minus the MAP sensor reading equals intake manifold vacuum
  
- 5) Which design of MAP sensor produces a frequency (digital) output signal? 5) \_\_\_\_\_
  - A) Silicon-diaphragm strain gauge
  - B) Piezoresistivity design
  - C) Capacitor-capsule
  - D) Ceramic disc
  
- 6) 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? 6) \_\_\_\_\_
  - A) Technician A only
  - B) Technician B only
  - C) Both technicians
  - D) Neither technician

- 7) A MAP sensor is being tested. Technician A says that many MAP sensors also act as a barometric pressure sensor when the ignition switch is first turned on. Technician B says that on many MAP sensors the signal voltage should increase when the vacuum at the sensor decreases. Which technician is correct? 7) \_\_\_\_\_
- A) Technician A only
  - B) Technician B only
  - C) Both technicians
  - D) Neither technician
- 8) The output of a MAP sensor is reading 1.0 volt. What is the approximate engine vacuum in inches of Mercury (Hg)? 8) \_\_\_\_\_
- A) 0
  - B) 5
  - C) 10-15
  - D) 17-21
- 9) A P0108 DTC is being discussed. Technician A says a missing MAP sensor O-ring 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) Most MAP sensors produce what type of output signal? 10) \_\_\_\_\_
- A) Frequency (Hz)
  - B) AC voltage (AC V)
  - C) Analog DC voltage (DC V)
  - D) DC milliamperes (DC mA)

## Answer Key

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- 1) A  
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- 2) C  
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- 3) B  
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- 4) A  
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- 5) C  
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- 6) C  
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- 7) C  
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- 8) D  
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- 9) A  
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