## Name\_\_\_\_\_

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

<ol> <li>Technician A says that pressure below atmospheric pressure is called vacuum and is measured in inches of mercury (Hg). Technician B says that a manifold absolute pressure (MAP) sensor uses a low vacuum in the sensor to determine the pressure. Who is right?         <ul> <li>A) Technician A only</li> <li>B) Technician B only</li> <li>C) Both technicians</li> <li>D) Neither technician</li> </ul> </li> </ol>	1)
<ul> <li>2) Which statement is FALSE?</li> <li>A) Absolute pressure is equal to barometric pressure plus intake manifold vacuum.</li> <li>B) A decrease in manifold vacuum means an increase in manifold pressure.</li> <li>C) The MAP sensor compares manifold vacuum to a perfect vacuum.</li> <li>D) Barometric pressure minus the MAP sensor reading equals intake manifold vacuum.</li> </ul>	2)
<ul> <li>3) As the load on an engine increases, manifold vacuum decreases and the manifold absolute pressure</li> <li>A) increases</li> <li>B) decreases</li> <li>C) changes with barometric pressure only (altitude or weather)</li> <li>D) remains constant (absolute)</li> </ul>	3)
<ul> <li>4) When testing a MAP sensor, the technician should first check the voltage.</li> <li>A) signal</li> <li>B) reference</li> <li>C) alternator</li> <li>D) back</li> </ul>	4)
<ul> <li>5) 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 manifold absolute pressure (MAP) sensor uses a perfect vacuum (zero absolute pressure) in the sensor to determine the pressure. Who is right? <ul> <li>A) Technician A only</li> <li>B) Technician B only</li> <li>C) Both technicians</li> <li>D) Neither technician</li> </ul> </li> </ul>	5)
<ul> <li>6) 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. Who is right?</li> <li>A) Technician A only</li> <li>B) Technician B only</li> <li>C) Both technicians</li> </ul>	6)

D) Neither technician

7) As the altitude of the vehicle increases, BARO voltage \_\_\_\_\_.

- A) increases
- B) does not change
- C) decreases
- D) either B or C, depending on the vehicle
- 8) The output of a MAP sensor is reading 1.0 volt. What is the approximate engine vacuum in inches of mercury (Hg)?

7) \_\_\_\_\_

8)

10)

- A) 0
- B) 5
- C) 10-15
- D) 17-21
- 9) Two technicians are discussing MAP sensors. Technician A says that the MAP sensor should be replaced if anything comes out of the sensor when the vacuum hose is removed from the sensor. Technician B says that the injector pulse width should increase when vacuum to the MAP sensor is increased. Who is right?
  - A) Technician A only
  - B) Technician B only
  - C) Both technicians
  - D) Neither technician
- 10) Two technicians are discussing testing MAP sensors. Technician A says that the MAP sensor voltage on a General Motors vehicle at idle should be about 1.0 volt. Technician B says that the MAP sensor voltage on a Chrysler vehicle at idle should be about 1.0 volt. Which technician is correct?
  - A) Technician A only
  - B) Technician B only
  - C) Both technicians
  - D) Neither technician

Answer Key Testname: AT6\_76B

> 1) A Page Ref: 890 2) A Page Ref: 891 3) A Page Ref: 891 4) B Page Ref: 894 5) B Page Ref: 891 6) C Page Ref: 895 7) C Page Ref: 893 8) D Page Ref: 891 9) A Page Ref: 894 10) C Page Ref: 891