

Name _____

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

- 1) Two technicians are discussing electronic leveling systems. Technician A says battery power may be applied directly to the compressor. Technician B says most leveling systems use adjustable sensors. Which technician is correct?
 - A) Technician A only
 - B) Technician B only
 - C) Both technicians A and B
 - D) Neither technician A nor B

- 2) Two technicians are discussing the length of an actuator's duty cycle. What type signal are they most likely discussing?
 - A) Pulse width modulation
 - B) Analog
 - C) AC current
 - D) None of these

- 3) What type of electronically controlled suspension is commonly used?
 - A) Automatic level control
 - B) Air suspension
 - C) Magneto-rheological suspension
 - D) Any of the above

- 4) What term describes an electrical device controlled by an electronic module that performs some kind of mechanical action?
 - A) Actuator
 - B) Activator
 - C) Driver
 - D) None of these

- 5) Which sensors do most vehicles use if equipped with electronic suspension?
 - A) Height sensors
 - B) Steering wheel position sensors
 - C) Lateral accelerometer sensors
 - D) All of the above

- 6) A lateral acceleration sensor is used to provide the suspension control module with feedback regarding _____ force.
 - A) cornering
 - B) acceleration
 - C) braking
 - D) All of the above

- 7) Two technicians are discussing electronic leveling systems. Technician A says that a weight should be placed in the vehicle as part of the diagnostic procedure. Technician B says that many ride height sensors are adjustable. Which technician is correct?
- A) Technician A only
 - B) Technician B only
 - C) Both technicians A and B
 - D) Neither technician A nor B
- 8) Which sensor can be tested by unbolting the sensor and, with the ignition on, engine off (KOEO), looking at the scan tool data?
- A) "G" sensor
 - B) Wheel speed sensor
 - C) Vehicle speed sensor
 - D) Suspension sensor
- 9) The *firm* setting is usually selected by the electronic suspension control module whenever which of the following occurs?
- A) High speed
 - B) Rapid braking
 - C) Rapid acceleration
 - D) Any of the above
- 10) Technician A says that comparing height sensors from side to side allows the ECM to calculate acceleration force. Technician B says that only Hall-effect sensors are used as height sensors. Which technician is correct?
- A) Technician A only
 - B) Technician B only
 - C) Both technicians A and B
 - D) Neither technician A nor B

Answer Key

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1) B

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2) A

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3) D

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4) A

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5) D

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6) A

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7) C

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8) A

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9) D

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10) D

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