

Name _____

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

- 1) Two technicians are discussing the length of an actuator's duty cycle. What type signal are they most likely discussing? 1) _____
 - A) Pulse width modulation
 - B) Analog
 - C) AC current
 - D) None of these

- 2) Which sensor can be tested by unbolting the sensor and, with the ignition on, engine off (KOEO), looking at the scan tool data? 2) _____
 - A) "G" sensor
 - B) Wheel speed sensor
 - C) Vehicle speed sensor
 - D) Suspension sensor

- 3) What is the purpose of an electronically controlled suspension system? 3) _____
 - A) Adjusts shock stiffness depending on conditions
 - B) Changes settings to firm for cornering
 - C) Selects soft for cruising
 - D) Any of the above

- 4) 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? 4) _____
 - A) Technician A only
 - B) Technician B only
 - C) Both technicians A and B
 - D) Neither technician A nor B

- 5) What type of sensor is used as a height sensor on vehicles equipped with an electronically controlled suspension? 5) _____
 - A) Hall-effect
 - B) Photo cell
 - C) Potentiometer
 - D) Any of the above

- 6) A bi-state damper uses an electrical actuator instead of a solenoid. 6) _____
 - A) True
 - B) False

- 7) What are commonly used as actuators in electronic suspension systems? 7) _____
 - A) Solenoids
 - B) Actuator motor
 - C) Stepper motor
 - D) Either A or B

- 8) Which of the following is NOT considered an input for the suspension ECM? 8) _____
- A) Electric motor
 - B) Sensor
 - C) Switch
 - D) Photocell
- 9) When hoisting a Ford vehicle equipped with air springs, what precaution must be taken? 9) _____
- A) Remove the bulb from the dome light to disable the air system.
 - B) Open the driver's door to turn off the air compressor.
 - C) Disconnect the battery positive cable.
 - D) Use the switch in the trunk to turn off the air suspension system.
- 10) Some vehicles have shocks that use magneto-rheological fluid. This MR fluid changes viscosity when _____ is applied to the fluid. 10) _____
- A) a vacuum
 - B) an electrical current
 - C) shock force
 - D) heat

Answer Key

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