

Name _____

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

- 1) Typically, a vehicle height sensor mounts to the body of the vehicle and is connected to the _____ by a lever. 1) _____
 - A) frame
 - B) upper control arm
 - C) lower control arm
 - D) none of these

- 2) Some vehicles have shocks that use magneto-rheological fluid. This MR fluid changes viscosity when _____ is applied to the fluid 2) _____
 - A) a vacuum
 - B) an electrical current
 - C) shock force
 - D) heat

- 3) What are commonly used as actuators in electronic suspension systems? 3) _____
 - A) Solenoids
 - B) Actuator motor
 - C) Stepper motor
 - D) Either A or B

- 4) Which of the following is NOT considered an input for the suspension ECM? 4) _____
 - A) Electric motor
 - B) Sensor
 - C) Switch
 - D) Photocell

- 5) Technician A says that an electronic control module used in the suspension system is the same as that used for engine control. Technician B says that most electronically controlled suspension systems use a separate electronic control module. Which technician is correct? 5) _____
 - A) Technician A only
 - B) Technician B only
 - C) Both technicians
 - D) Neither technician

- 6) Which sensor provides input regarding cornering forces? 6) _____
 - A) Yaw sensor
 - B) Lateral accelerometer
 - C) Potentiometer
 - D) None of these

- 7) What term describes an electrical device controlled by an electronic module that performs some kind of mechanical action? 7) _____
- A) Actuator
 - B) Activator
 - C) Driver
 - D) None of these
- 8) What type of sensor is used as a height sensor on vehicles equipped with an electronically controlled suspension? 8) _____
- A) Hall-effect
 - B) Photo cell
 - C) Potentiometer
 - D) Any of the above
- 9) What type signal is produced by a potentiometer? 9) _____
- A) Analog
 - B) Digital
 - C) Pulse width modulated
 - D) None of these
- 10) A ride height compressor that runs excessively indicates _____. 10) _____
- A) low tire pressure
 - B) an air leak in the system
 - C) a vacuum leak in the system
 - D) any of the above

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) B

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6) B

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7) A

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8) D

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9) A

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10) B

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