

Name _____

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

- 1) Which sensors do most vehicles use if equipped with electronic suspension? 1) _____
 - A) Height sensors
 - B) Steering wheel position sensors
 - C) Lateral accelerometer sensors
 - D) All of the above

- 2) Where is the steering wheel sensor typically located? 2) _____
 - A) At the base of the steering column
 - B) At the center of the steering wheel, under the airbag
 - C) Near the steering gear
 - D) None of these

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

- 4) How many wires are used with a potentiometer-type sensor? 4) _____
 - A) Three
 - B) Two
 - C) One
 - D) Four

- 5) What type signal is produced by a potentiometer? 5) _____
 - A) Analog
 - B) Digital
 - C) Pulse width modulated
 - D) None of these

- 6) Which type of actuator uses an electromagnetic plunger to open and close a passage or move a linkage? 6) _____
 - A) Solenoid
 - B) Relay
 - C) Transistor
 - D) LED

- 7) What type of electronically controlled suspension is commonly used? 7) _____
 - A) Automatic level control
 - B) Air suspension
 - C) Magneto-rheological suspension
 - D) Any of the above

- 8) The *firm* setting is usually selected by the electronic suspension control module whenever which of the following occurs? 8) _____
- A) High speed
 - B) Rapid braking
 - C) Rapid acceleration
 - D) Any of the above
- 9) What type of sensor is used as a height sensor on vehicles equipped with an electronically controlled suspension? 9) _____
- A) Hall-effect
 - B) Photo cell
 - C) Potentiometer
 - D) Any of the above
- 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) D

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2) A

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3) D

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4) A

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5) A

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6) A

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7) D

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8) D

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9) D

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10) B

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