

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