

Name \_\_\_\_\_

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

- 1) Technician A says that two sensors must be triggered at the same time for an airbag deployment to occur. Technician B says that frontal airbags only operate within 60 degrees from center and do not deploy in the event of a side or rear collision. Who is right? 1) \_\_\_\_\_
  - A) A only
  - B) B only
  - C) Both A and B
  - D) Neither A nor B
  
- 2) The force required to deploy a typical airbag is approximately equal to the force of a vehicle hitting a wall at over \_\_\_\_\_ miles per hour 2) \_\_\_\_\_
  - A) 15-10
  - B) 10
  - C) 3-5
  - D) 15
  
- 3) Which of these is the heating element used to ignite the gas-generating material, usually sodium azide? 3) \_\_\_\_\_
  - A) Pretensioner
  - B) Element
  - C) Coil
  - D) Squib
  
- 4) When disabling an air bag, which of these is the first step taken? 4) \_\_\_\_\_
  - A) Disconnect the battery negative cable
  - B) Disconnect the clockspring electrical connector
  - C) Disconnect the impact sensors
  - D) Take resistance measurements at all electrical connectors
  
- 5) The electrical terminals used for airbag systems are unique because they are \_\_\_\_\_. 5) \_\_\_\_\_
  - A) Solid copper
  - B) Gold plated
  - C) Tin plated heavy-gauge steel
  - D) Silver plated
  
- 6) Where are shorting bars used? 6) \_\_\_\_\_
  - A) In pretensioners
  - B) In the airbag controller
  - C) At the connectors for airbags
  - D) In the crash sensors

- 7) To cause inflation, the closing of the \_\_\_\_\_ is required to provide the power-side voltage to the inflator module. 7) \_\_\_\_\_
- A) Arming sensor
  - B) Seat Position sensor (SPS)
  - C) Electronic Frontal Sensor (EFS)
  - D) Forward discriminating sensor
- 8) Before the airbag can inflate, the squib circuit must have a ground. The ground is provided through the actuation of which of these? 8) \_\_\_\_\_
- A) Forward discriminating sensor
  - B) Passenger discriminating sensor
  - C) Either A or B
  - D) Seat belt switch
- 9) What enables an air bag to deploy in an accident, even if the battery becomes disconnected during the crash? 9) \_\_\_\_\_
- A) Velocity versus solid object sensor
  - B) Mechanical push-arm igniter
  - C) Backup power supply
  - D) "Sudden stop" signal received from vehicle speed sensor (VSS)
- 10) How many sensors must be triggered at the same time to cause an airbag deployment? 10) \_\_\_\_\_
- A) Three
  - B) Four
  - C) One
  - D) Two

## Answer Key

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1) A

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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) C

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7) A

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8) C

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9) C

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10) D

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