

Name _____

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

- 1) Technician A says that air bag electrical terminals are copper-plated to protect against corrosion. Technician B says that pretensioners are explosive (pyrotechnic) devices which remove the slack from the seat belt and help position the occupant. Who is right? 1) _____
- A) Technician A only
 - B) Technician B only
 - C) Both technicians
 - D) Neither technician

- 2) Which air bag system component is shown in this illustration? 2) _____



- A) Steering return spring
 - B) Squib
 - C) Horn contact
 - D) Clockspring
- 3) 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. 3) _____
- A) 15-10
 - B) 3-5
 - C) 10
 - D) 15
- 4) During an airbag deployment, the vehicle event data recorder (EDR) will record all of these EXCEPT _____. 4) _____
- A) passenger voice sounds
 - B) vehicle speed
 - C) brake on/off
 - D) G-forces

- 5) Which of these is an explosive (pyrotechnic) device that tightens the seat belt as the airbag is being deployed? 5) _____
A) Belt switch
B) Pretensioner
C) Clockspring
D) Igniter
- 6) What enables an air bag to deploy in an accident, even if the battery becomes disconnected during the crash? 6) _____
A) Mechanical push-arm igniter
B) Auxilliary power supply
C) Velocity versus solid object sensor
D) "Sudden stop" signal received from vehicle speed sensor (VSS)
- 7) Which of these is the heating element used to ignite the gas-generating material, usually sodium azide? 7) _____
A) Squib
B) Pretensioner
C) Coil
D) Element
- 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) Which parameters might be stored in the airbag controller in the event of a deployment? 9) _____
A) Voice recordings
B) A 10 second video of the driver
C) Whether the windows were open or closed
D) Brakes on or off
- 10) The occupant detection system measures the _____ of the person in the passenger seat. 10) _____
A) height
B) weight
C) age
D) distance from the seat belt

Answer Key

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1) B

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2) D

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3) C

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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) C

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9) D

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10) B

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