

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. Which technician is correct? 1) _____
- A) Technician A only
 - B) Technician B only
 - C) Both technicians A and B
 - D) Neither technician A nor B
- 2) Driver and/or passenger front airbags will only deploy if a collision occurs how many degrees from straight ahead? 2) _____
- A) 20
 - B) 30
 - C) 45
 - D) 90
- 3) 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? 3) _____
- A) Technician A only
 - B) Technician B only
 - C) Both technicians
 - D) Neither technician
- 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 air bag system component is shown in this illustration?

5) _____



- A) Arming sensor
- B) Squib
- C) Horn contact
- D) Clockspring

6) The electrical terminals used for airbag systems are unique because they are _____.

6) _____

- A) solid copper
- B) tin plated heavy-gauge steel
- C) silver plated
- D) gold plated

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) What enables an air bag to deploy in an accident, even if the battery becomes disconnected during the crash?

8) _____

- 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)

9) When servicing an air bag, which of these is the first step taken?

9) _____

- A) Disconnect the battery negative cable
- B) Disconnect the clockspring electrical connector
- C) Take resistance measurements at all electrical connectors
- D) Disconnect the impact sensors

10) A vehicle is being repaired after an airbag deployment. Technician A says that the inflator module should be handled as if it is still live. Technician B says rubber gloves should be worn to prevent skin irritation. Which technician is correct?

10) _____

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

Answer Key

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1) A

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2) B

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3) B

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4) A

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5) D

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6) D

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7) A

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8) B

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9) A

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10) C

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