

Name: _____

Date: _____

1. What is the primary function of the arming sensor in an airbag system?
 - A. To detect the weight of the passenger
 - B. To provide electrical power for airbag deployment
 - C. To measure the rate of deceleration
 - D. To control the inflation speed of the airbag

2. The squib in an airbag system is responsible for:
 - A. Detecting the vehicle's acceleration
 - B. Transmitting data to the event data recorder
 - C. Locking the seatbelt during a collision
 - D. Converting electrical power into heat for ignition

3. What color are the electrical connectors and conduit for airbags typically?
 - A. Blue
 - B. Red
 - C. Yellow
 - D. Orange

4. Dual-stage airbags deploy:
 - A. Only in high-speed crashes
 - B. Based on the severity of the collision
 - C. Simultaneously at all times
 - D. Only in frontal impacts

5. The occupant detection system (ODS) in a vehicle is used to:
 - A. Record the weight of the passenger
 - B. Control the speed of airbag inflation
 - C. Detect the presence of children in the vehicle
 - D. Determine if the passenger airbag should deploy

6. What is the role of the clockspring wire coil in the steering column?
 - A. To provide a continuous electrical connection to the airbag
 - B. To detect the steering wheel's position
 - C. To control the deployment of the driver's airbag
 - D. To measure the force of impact on the steering wheel

7. In an airbag system, the event data recorder (EDR) is used to:
 - A. Store data related to airbag deployment
 - B. Control the timing of airbag inflation
 - C. Record the speed of the vehicle during a crash
 - D. Detect faults in the airbag system

8. Pretensioners in safety belts function to:

- A. Inflate the airbags faster
- B. Remove slack from the seat belt during a collision
- C. Detect the position of the seat belt
- D. Measure the force exerted on the seat belt

9. The main purpose of the passenger presence system (PPS) is to:

- A. Adjust the airbag inflation based on the passenger's weight
- B. Record the presence of passengers for insurance purposes
- C. Prevent the passenger airbag from deploying when the seat is unoccupied
- D. Control the tension of the seat belt

10. What triggers the deployment of front airbags in a vehicle?

- A. A single sensor detecting a collision
- B. Two sensors triggered simultaneously
- C. The speed of the vehicle at the time of impact
- D. The angle of impact relative to the vehicle

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Chapter 56

Multiple Choice Quiz A

Answer Key

1. B

2. D

3. C

4. B

5. D

6. A

7. A

8. B

9. C

10. B