

Automotive Technology 7th Edition
Chapter 56
Multiple Choice Quiz B

Name: _____ Date: _____

1. The passenger presence system uses which type of sensor that uses a silicone-filled bag with a pressure sensor attached?
 - A. Gel-filled bladder sensor
 - B. Capacitive strip sensors
 - C. Force-sensing resistor sensors
 - D. None of the above

2. The passenger-side airbag is disabled, and the disabled airbag light is “on” only if how much weight is on the passenger seat?
 - A. At least 10 to 37 pounds
 - B. 38 to 99 pounds
 - C. 99 pounds or more
 - D. None of the above

3. If 38 to 99 pounds is detected on the passenger seat, how does the airbag deploy?
 - A. At full force
 - B. At a decreased force
 - C. Does not deploy
 - D. Deploys based on the speed of the vehicle

4. What is the purpose of the clockspring in the steering column?
 - A. To inflate the airbag
 - B. To provide electrical connection to the inflator module
 - C. To detect a collision
 - D. To measure the weight of the passenger

5. What is used inside the yellow plastic airbag connectors to prevent corrosion?
 - A. Silver-plated terminals
 - B. Copper-plated terminals
 - C. Gold-plated terminals
 - D. Zinc-plated terminals

6. What is the purpose of the auxiliary power supply in most airbag systems?
 - A. To power the vehicle's headlights
 - B. To inflate the airbag if the battery is disconnected during a collision
 - C. To charge the vehicle's battery
 - D. To power the vehicle's radio

7. What happens when there is no weight on the seat and no seat belt is fastened regarding the passenger-side airbag?
 - A. The airbag deploys
 - B. The passenger airbag light is on
 - C. The passenger airbag light should be off
 - D. The airbag inflates slowly

8. What type of occupant sensor uses resistors that change their resistance based on the stress applied?

- A. Gel-filled bladder sensor
- B. Capacitive strip sensors
- C. Force-sensing resistor sensors
- D. None of the above

9. What happens if 99 pounds or more is detected on the passenger seat regarding the airbag deployment?

- A. The airbag deploys at full force
- B. The airbag does not deploy
- C. The airbag deploys at a decreased force
- D. The airbag deployment is unpredictable

10. What is the purpose of the event data recorder (EDR) in many vehicles?

- A. To play music
- B. To record parameters just before and slightly after an airbag deployment
- C. To provide GPS navigation
- D. To control the vehicle's air conditioning system

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Answer Key

1. A

2. A

3. B

4. B

5. C

6. B

7. C

8. C

9. A

10. B