

Name: _____

Date: _____

1. What is the recommended action if a hybrid electric vehicle needs to be pushed in a shop?
 - A. Turn off the ignition and push normally.
 - B. Push only when the engine is running.
 - C. Tape the orange HV cables.
 - D. No special precautions are needed.

2. When hoisting a hybrid or electric vehicle, what is a crucial precaution?
 - A. Ensure the vehicle is in neutral.
 - B. Disconnect the HV battery.
 - C. Lift the vehicle by the battery case.
 - D. Make sure the lift points do not contact HV cables.

3. What happens if the safety interlock system detects an open circuit on a hybrid vehicle?
 - A. The vehicle will continue to operate normally.
 - B. The power relays turn off, disabling the "ready" light.
 - C. The vehicle automatically switches to gasoline mode.
 - D. The electric motor increases its output.

4. What is the primary purpose of insulated rubber mats in a hybrid/electric vehicle work area?
 - A. To prevent slipping.
 - B. To reduce noise.
 - C. Exposure to high voltage.
 - D. To keep the area clean.

5. What should technicians with implanted cardiac devices do before working on hybrid or electric vehicles?
 - A. Undergo a medical examination.
 - B. Check with the device manufacturer due to strong magnetic fields.
 - C. Wear a special protective suit.
 - D. There are no special precautions needed.

6. What is the significance of the color orange in the wiring of a hybrid vehicle?
 - A. It indicates low-voltage wiring.
 - B. It is for aesthetic purposes.
 - C. It signifies high-voltage (HV) wiring.
 - D. It indicates ground connections.

7. What is the function of a megohmmeter or insulation tester in hybrid/electric vehicle maintenance?
 - A. To check for continuity between the HV cables and the vehicle chassis.
 - B. To measure the resistance of connections in the LV system.
 - C. To measure the current flow through the HV cables.
 - D. To test the battery charge level.

8. What should be done if the HV rubber gloves' inspection dates are expired?
- A. Use them anyway if they look okay.
 - B. Use them if they pass the air test.
 - C. Throw the gloves away.
 - D. Send them to a qualified inspection laboratory.
9. What type of fire extinguisher is recommended for use in electric vehicle fires?
- A. Class A.
 - B. Class B.
 - C. Class C or ABC if Class C is not available.
 - D. Class D.
10. What is the purpose of the acoustic vehicle alerting system in electric vehicles?
- A. To alert the driver of mechanical issues.
 - B. To warn pedestrians of the vehicle's presence at low speeds.
 - C. To enhance the vehicle's audio system.
 - D. To signal when the vehicle is charging.

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Chapter 86

Multiple Choice Quiz A

Answer Key

1. C

2. D

3. B

4. C

5. B

6. C

7. A

8. D

9. C

10. B