Automotive Technology 7th Edition
Chapter 86: Hybrid and Electric Vehicle Safety
Short Answer Quiz

Name: _____ Date: _____

1. Describe the function of the safety interlock system in hybrid vehicles.

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2. Explain the significance of the color coding of high-voltage cables in hybrid and electric vehicles.

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3. What are the risks associated with using shop air to test high-voltage gloves, and what is the recommended testing method?

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4. Why should technicians with cardiac pacemakers avoid servicing or repairing electric or hybrid electric vehicles?

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5. What is the purpose of insulated rubber mats and blankets in the context of hybrid and electric vehicle service areas?

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6. Discuss the importance of the CAT III certification for a digital multimeter (DMM) when measuring high-voltage circuits or components.

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7. What precautions should be taken when hoisting a hybrid or electric vehicle to ensure personal safety and avoid damage to the vehicle?

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8. Why is it not safe to assume a hybrid electric vehicle is shut off just because the engine is off? What should be checked instead?

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9. What additional personal protective equipment (PPE) do some manufacturers recommend to be available outside the safety zone when working on hybrid or electric vehicles?

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10. Explain the potential consequences of pushing a hybrid electric vehicle in the shop.

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