

Name \_\_\_\_\_

**MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.**

- 1) Technician A says that the that HV battery container is grounded to the vehicle chassis. Technician B says that the HV battery and its housing and container are completely insulated and isolated from the rest of the vehicle. Which technician is correct? 1) \_\_\_\_\_
- A) Technician A only
  - B) Technician B only
  - C) Both technicians
  - D) Neither technician
- 2) Technician A says that CAT I meter leads may be used to test HV system components as long as the DMM itself is rated CAT III. Technician B says that CAT IV test leads are clamp-on inductive type leads. Which technician is correct? 2) \_\_\_\_\_
- A) Technician A only
  - B) Technician B only
  - C) Both technicians
  - D) Neither technician
- 3) What can occur if a hybrid electric vehicle is pushed in the shop? 3) \_\_\_\_\_
- A) The HV battery pack can be damaged
  - B) The tires will be locked unless the ignition is on
  - C) Damage to the electronic controller can occur
  - D) High voltage will be generated by the motor/generator
- 4) Rubber gloves should be worn whenever working on or near the high-voltage circuits or components of a hybrid electric vehicle. Technician A says that the rubber gloves should be rated at 1000 volts or higher. Technician B says that leather gloves should be worn over the high-voltage rubber gloves. Which technician is correct? 4) \_\_\_\_\_
- A) Technician A only
  - B) Technician B only
  - C) Both technicians
  - D) Neither technician
- 5) Technician A says that when a hybrid electric vehicle must remain in the shop for over a month, the battery should be charged by running the vehicle if possible. Technician B says that if the battery unit must be removed, it should be handled with PPE and always tested for voltage and treated with care. Which technician is correct? 5) \_\_\_\_\_
- A) Technician A only
  - B) Technician B only
  - C) Both technicians
  - D) Neither technician

- 6) Technician A says that all components in the high voltage battery box are completely insulated from the rest of the vehicle for safety. Technician B says that the high voltage battery box is located under the hood in some vehicles. Which technician is correct? 6) \_\_\_\_\_
- A) Technician A only
  - B) Technician B only
  - C) Both technicians
  - D) Neither technician
- 7) A hybrid vehicle 12 volt battery is located under the hood. This will usually be a(n) \_\_\_\_\_ type battery. 7) \_\_\_\_\_
- A) AGM design
  - B) Flooded
  - C) Gel-cell
  - D) NiCad
- 8) If the engine is not running, technician A says that the high-voltage circuits are depowered. Technician B says that all high voltage wiring is orange in color. Which technician is correct? 8) \_\_\_\_\_
- A) Technician A only
  - B) Technician B only
  - C) Both technicians
  - D) Neither technician
- 9) Servicing the base brakes on a hybrid vehicle requires the technician to \_\_\_\_\_. 9) \_\_\_\_\_
- A) Replace the pads when needed, just as on any other vehicle
  - B) Disconnect the brake regeneration cables
  - C) De-power and disconnect the HV battery
  - D) None of these
- 10) How long can power be retained in the high voltage system once it has been disabled? 10) \_\_\_\_\_
- A) 10 minutes
  - B) 90 seconds
  - C) 4 hours
  - D) None of these

## Answer Key

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1) B

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2) B

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3) D

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4) C

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5) C

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6) A

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7) B

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8) B

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9) A

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10) A

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