

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 is grounded to the vehicle chassis. Technician B says that the HV battery and cables 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) How long can power be retained in the high voltage system once it has been disabled? 2) \_\_\_\_\_
  - A) 10 to 20 minutes
  - B) Less than 90 seconds
  - C) 9 hours
  - D) None of these
  
- 3) 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? 3) \_\_\_\_\_
  - A) Technician A only
  - B) Technician B only
  - C) Both technicians
  - D) Neither technician
  
- 4) What can occur if a hybrid electric vehicle is pushed in the shop? 4) \_\_\_\_\_
  - 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
  
- 5) Nickel metal hydride (NiMH) batteries can be damaged if exposed to temperatures higher than about \_\_\_\_\_. 5) \_\_\_\_\_
  - A) 150°F
  - B) 175°F
  - C) 200°F
  - D) 225°F
  
- 6) Technician A says that a completely assembled electric motor is not likely to produce injury by electrical shock. Technician B says that turning off the ignition on an HEV causes the system main relay to disable the high voltage system. Which technician is correct? 6) \_\_\_\_\_
  - A) Technician A only
  - B) Technician B only
  - C) Both technicians
  - D) Neither technician

- 7) What is the recommended location to store a HEV ignition key during service? 7) \_\_\_\_\_
- A) Top of the technician's tool box
  - B) Lock box
  - C) In the vehicle glove box
  - D) Leave the key in the ignition
- 8) How often should linesman's gloves be inspected by a qualified testing lab? 8) \_\_\_\_\_
- A) Every six months
  - B) Daily
  - C) Monthly
  - D) Yearly
- 9) Technician A says that the high voltage cables may be repaired if damaged while lifting on a vehicle hoist. Technician B says that a paint oven does not get hot enough to damage high voltage cables or other hybrid components. Which technician is correct? 9) \_\_\_\_\_
- A) Technician A only
  - B) Technician B only
  - C) Both technicians
  - D) Neither technician
- 10) Which of these is NOT a step in de-powering the high voltage system? 10) \_\_\_\_\_
- A) Remove the ignition key
  - B) Disconnect the 12 volt battery
  - C) Remove the ground interlock fuse
  - D) Remove the high voltage service plug

## Answer Key

Testname: HYBRID4\_19B

1) B

Page Ref: 306

2) A

Page Ref: 306

3) B

Page Ref: 304, 310

4) D

Page Ref: 312

5) A

Page Ref: 311

6) C

Page Ref: 307

7) B

Page Ref: 310

8) A

Page Ref: 304

9) D

Page Ref: 311-312

10) C

Page Ref: 310