

Name _____

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

- 1) What is true regarding protective gloves worn during HV system service? 1) _____
 - A) Rubber gloves should be checked for leaks before each use
 - B) Leather gloves are worn over the rubber gloves to protect the rubber from damage
 - C) Both A and B
 - D) Neither A nor B

- 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) 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? 3) _____
 - A) Technician A only
 - B) Technician B only
 - C) Both technicians
 - D) Neither technician

- 4) Technician A says that DMMs are assigned CAT ratings based on voltage capacity alone. Technician B says that DMMs are rated according to their ability to handle potential electrical energy. 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) 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? 6) _____
- A) Technician A only
 - B) Technician B only
 - C) Both technicians
 - D) Neither technician
- 7) A CAT III certified DMM should be used whenever measuring high-voltage circuits or components. The CAT III rating relates to _____. 7) _____
- A) High voltage
 - B) High energy
 - C) High electrical resistance
 - D) Both A and B
- 8) The hybrid vehicle control system can detect a high voltage leakage to ground by use of _____. 8) _____
- A) A temperature sensing system
 - B) Ground noise sensors
 - C) A ground fault monitor system
 - D) Air bag sensors
- 9) 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? 9) _____
- A) Technician A only
 - B) Technician B only
 - C) Both technicians
 - D) Neither technician
- 10) Which statement is FALSE about high voltage wiring? 10) _____
- A) Connects the battery pack to the electric controller
 - B) Connects the controller to the motor/generator
 - C) Is electrically grounded to the frame (body) of the vehicle
 - D) Is controlled by a relay that opens if the ignition is off

Answer Key

Testname: AEEP8_45B

1) C

Page Ref: 656

2) B

Page Ref: 657

3) D

Page Ref: 661-662

4) B

Page Ref: 657

5) C

Page Ref: 661

6) B

Page Ref: 656, 659

7) D

Page Ref: 657

8) C

Page Ref: 659

9) A

Page Ref: 659

10) C

Page Ref: 659