

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) Rubber gloves should be worn whenever working on or near the high-voltage circuits or components of a hybrid electric vehicle. Technician says that the rubber gloves should be rated at 1000 volts or higher. Technician says that leather gloves should be worn over the high-voltage rubber gloves. Which technician is correct? 2) _____
 - A) Technician A
 - B) Technician B
 - C) Both Technicians
 - D) Neither Technician

- 3) Nickel metal hydride (NiMH) batteries can be damaged if exposed to temperatures higher than about _____. 3) _____
 - A) 150 deg F
 - B) 175 deg F
 - C) 200 deg F
 - D) 225 deg F

- 4) How long can power be retained in the high voltage system once it has been disabled? 4) _____
 - A) 10 minutes
 - B) 90 seconds
 - C) 9944 hours
 - D) None of these

- 5) 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? 5) _____
 - A) Technician A
 - B) Technician B
 - C) Both Technicians
 - D) Neither Technician

- 6) What is the recommended location to store a HEV ignition key during service? 6) _____
 - A) Top of the technician's tool box
 - B) Lock box
 - C) In the vehicle glove box
 - D) leave the key in the ignition

- 7) Some hybrid air conditioning systems use an electrically driven compressor that uses a special lubricant. What precaution should be taken when servicing these systems? 7) _____
- A) Extra refrigerant filters
 - B) A special gauge set
 - C) A dedicated recycling machine for the HEV
 - D) Low pressure pump
- 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) What can occur if a hybrid electric vehicle is pushed in the shop? 9) _____
- 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
- 10) 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? 10) _____
- A) Technician A
 - B) Technician B
 - C) Both Technicians
 - D) Neither Technician

Answer Key

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- 1) C
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- 2) C
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- 3) A
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- 4) A
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- 5) B
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- 6) B
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- 7) C
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- 8) A
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- 9) D
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- 10) B
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