Electric and Hybrid Electric Vehicles, 1st Edition

NAME		

1. On a HEV that uses a "START" push button, what precaution should be taken when	1.	
de-powering the vehicle?		
A) Make sure the key fob is at least 15 feet away from the vehicle		
B) Make sure the key is somewhere inside the vehicle		
C) Put the key fob in the trunk		
D) No special precautions are needed		
2. What is true regarding protective gloves worn during HV system service?	2.	
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		
3. Which statement regarding high voltage circuitry in HEVs is NOT correct?	3.	
A) The HV system is not energized when the ICE is in idle stop mode and the electrical A/C	-	
compressor is running		
B) The system is disabled when the ignition switch is off		
C) The system is energized when the ICE is running and the vehicle is accelerating		
D) None of these		
4. What should be done if the HV rubber gloves inspection dates are found to be expired?		
A) Use them anyway if they look OK.	-	
B) Use them if they pass the air test.		
C) Send the gloves to a qualified inspection laboratory.		
D) Throw the gloves away.		
5. Technician A says that a completely assembled electric motor is not likely to produce injury by	5.	
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?		
A) Technician A only		
B) Technician B only		
C) Both technicians A and B		
D) Neither technician A nor B		
6. When hoisting a hybrid or electric vehicle, what precautions must the technician follow to	6.	
ensure personal safety and avoid damage to the vehicle?	-	
A) Make sure the lift points do not contact HV cables.		
B) Do not lift the vehicle by the battery case.		
C) Ensure the lift points are clear of battery cooling and refrigeration lines.		
D) All of the answers are correct.		

 7. Rubber gloves should be worn whenever working on or near the high-voltage circuits or components of a hybrid electric vehicle. Technician says A 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? A) Technician A only B) Technician B only C) Both technicians A and B D) Neither technician A nor B 	7
 8. How often should linesman's gloves be inspected by a qualified testing lab? A) Every six months B) Daily C) Monthly D) Yearly 	8
 9. Which of these is NOT a recommended PPE? A) Cotton clothing B) Insulated rubber mat C) Plastic tool box D) Insulated shoes 	9
10. What is the purpose of a megohmmeter or insulation tester?A) Check for continuity between the HV cables and the vehicle chassis.B) Measure the resistance of connections in the LV system.C) Measure the current flow through the HV cables.D) None of the answers is correct.	10

Answer Key Testname: EV1_1B

- 1. A
 - Page Ref: 9
- 2. C
- Page Ref: 5
- 3. A
 - Page Ref: 3
- 4. C
 - Page Ref: 4
- 5. C
 - Page Ref: 3
- 6. D Page Ref: 9
- 7. C
 - Page Ref: 4
- 8. A

Page Ref: 4

9. C

Page Ref: 5

10. A

Page Ref: 7