

Electric and Hybrid Electric Vehicles, 1st Edition

Quiz 20A

NAME _____

1. If the electrolyte from a high voltage battery is spilled, what should be used to neutralize it? 1. _____
A) Baking soda
B) Vinegar or boric acid
C) Water
D) CO₂

2. What is the color of the cables for the 12 volt auxiliary battery? 2. _____
A) Blue
B) Yellow
C) Red or black
D) Orange

3. Which is true of high voltage battery electrolyte? 3. _____
A) It is flammable
B) It is explosive
C) It creates noxious fumes
D) None of these

4. The high-voltage will be shut off if the _____. 4. _____
A) ignition is turned off
B) air bags deploy
C) vehicle becomes submerged
D) Any of the above

5. In a hybrid electric vehicle, where is the high voltage battery normally installed? 5. _____
A) In the engine compartment
B) Behind or under the back seat
C) Either a or b
D) Neither a nor b

6. What personal protective equipment (PPE) should be used when responding to an incident that could involve an electric or hybrid electric vehicle? 6. _____
A) Helmet with face shield
B) Self-contained breathing apparatus (SCBA)
C) High-voltage lineman's gloves
D) All of the above

7. What is the pH of the electrolyte of a hybrid electric vehicle's NiMH battery? 7. _____
A) 13.5
B) 2.5
C) 7.0
D) 14.7

8. If the 12 volt cables have been cut, what is the state of the high voltage system? 8. _____
- A) The high voltage system is de-powered
 - B) High voltage remains in the orange high voltage cables
 - C) The high voltage battery pack goes dead
 - D) None of these
9. How many high voltage cables supply electrical power to the HV components at the front of the vehicle? 9. _____
- A) Two or three on some vehicles
 - B) Six on some vehicles
 - C) Four on some vehicles
 - D) None of these
10. Orange cables connect the high voltage battery to the HEV electrical motors. High voltage may also be connected to the _____. 10. _____
- A) air bags
 - B) AC compressor
 - C) bumper sensors
 - D) passenger presence system

Answer Key

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3. D
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