

Name _____

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

- 1) What is the pH of the electrolyte of a hybrid electric vehicle's NiMH battery? 1) _____
A) 13.5
B) 2.5
C) 7.0
D) 14.7

- 2) If a HEV is submerged what causes the high voltage relays to turn off? 2) _____
A) A dissolved safety pellet
B) The ground fault circuit detects a connection between the HV battery and the vehicle body (ground)
C) The relays only turn off when the key is removed
D) None of these

- 3) What voltage will be found in the orange HEV cables? 3) _____
A) 12 volts
B) 42 volts
C) 36 to 42 volts
D) 144 to 600 volts

- 4) The electrolyte in the NiMH battery poses an extreme risk to rescue personnel. 4) _____
A) True
B) False

- 5) How would a first responder be able to identify a hybrid electric vehicle? 5) _____
A) Emblems on the front, side, or rear of the vehicle
B) Orange colored cables
C) Blue colored cables
D) All of the above

- 6) If the 12 volt cables have been cut, what is the state of the high voltage system? 6) _____
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

- 7) If the electrolyte from a high voltage battery is spilled, what should be used to neutralize it? 7) _____
A) Baking soda
B) Vinegar or boric acid
C) Water
D) CO₂

- 8) How many high voltage cables supply electrical power to the HV components at the front of the vehicle? 8) _____
- A) Two or three on some vehicles
 - B) Six on some vehicles
 - C) Four on some vehicles
 - D) None of these
- 9) A vehicle using ethanol or E85 as a fuel can be treated the same as a gasoline fueled vehicle during an accident event. 9) _____
- A) True
 - B) False
- 10) What personal protective equipment (PPE) should be used when responding to an incident that could involve a hybrid electric vehicle? 10) _____
- A) Helmet with face shield
 - B) Self contained breathing apparatus (SCBA)
 - C) High voltage lineman's gloves
 - D) All of the above

Answer Key

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1) A

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2) B

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3) D

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4) B

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5) D

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6) A

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7) B

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8) A

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9) A

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10) D

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