

Electric and Hybrid Electric Vehicles, 1st Edition

Quiz 9A

NAME _____

1. When a technician is attempting to start a hybrid vehicle and nothing happens, what should the technician check first? 1. _____
 - A) The key fob battery
 - B) The HV battery
 - C) The auxiliary battery
 - D) The hood switch

2. Which of these is NOT a function of the 12-volt battery in an EV or HEV? 2. _____
 - A) Start the engine
 - B) Power the 12-volt accessories
 - C) Act as a voltage stabilizer
 - D) Power the high-voltage electronic controller

3. Reserve capacity is the number of _____ a battery can produce 25 amperes. 3. _____
 - A) hours
 - B) times
 - C) minutes
 - D) days

4. A battery state-of-charge test shows the voltage to be 12.2 volts. This means the battery is _____ charged. 4. _____
 - A) fully
 - B) 75%
 - C) 50%
 - D) discharged

5. The cold-cranking ampere battery rating is determined at _____ degrees F. 5. _____
 - A) -18
 - B) 0
 - C) 32
 - D) 29

6. What color are the covers on high-voltage cables when the voltage is above 12 volts and less than 60 volts? 6. _____
 - A) Yellow
 - B) Blue
 - C) Orange
 - D) Yellow or Blue

7. A 12-volt battery can be rated for _____. 7. _____
 - A) cold cranking amperes
 - B) reserve capacity
 - C) cranking amperes
 - D) All the answers are correct

8. Which of the following conditions may disable a start-stop system? 8. _____
A) An open driver's door
B) An air conditioning system that is placed in the "Max Cold" position
C) A transfer case that has been placed in the 4X4 low range
D) All the answers are correct

9. Typically, a 36-48-volt battery is of the _____ design. 9. _____
A) lithium-ion
B) lead acid
C) NiMH
D) single cell

10. Battery state-of-charge is measured with a _____. 10. _____
A) load tester
B) capacitor
C) test light
D) voltmeter

Answer Key

Testname: EV1_9A

1. C
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2. A
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3. C
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4. C
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5. B
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6. D
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7. D
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8. D
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9. A
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