

Electric and Hybrid Electric Vehicles, 1st Edition

Quiz 9B

NAME _____

1. Diagnosis of a micro hybrid stop-start system is being discussed. Technician A says that it is important to verify the concern because there are many conditions that will prevent the system from operating. Technician B states that the two batteries must be electrically separated before testing. Which technician is correct? 1. _____
 - A) Technician A only
 - B) Technician B only
 - C) Both technicians A and B
 - D) Neither technician A nor B

2. Load testing of an absorbed glass mat battery is being discussed. Technician A says that a carbon pile tester can be used. Technician B says that a conductance tester must be used. Which technician is correct? 2. _____
 - A) Technician A only
 - B) Technician B only
 - C) Both technicians A and B
 - D) Neither technician A nor B

3. When performing a battery load test, the load is applied for _____ seconds. 3. _____
 - A) 30
 - B) 15
 - C) a few
 - D) 5

4. Which of the following conditions may disable a start-stop system? 4. _____
 - 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

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

6. Reserve capacity is the number of _____ a battery can produce 25 amperes. 6. _____
 - A) hours
 - B) times
 - C) minutes
 - D) days

7. Typically, a 36-48-volt battery is of the _____ design. 7. _____
A) lithium-ion
B) lead acid
C) NiMH
D) single cell
8. The heavy-duty starter in a micro-hybrid vehicle is being discussed. Technician A says that the starter contains long life bearings. Technician B says that the starter has hardened gears. Which technician is correct? 8. _____
A) Technician A only
B) Technician B only
C) Both technicians A and B
D) Neither technician A nor B
9. A battery state-of-charge test shows the voltage to be 12.2 volts. This means the battery is _____ charged. 9. _____
A) fully
B) 75%
C) 50%
D) discharged
10. A stop-start system allows which of these? 10. _____
A) Improved fuel economy
B) Colder A/C system
C) Reduced emissions
D) Both a and c

Answer Key

Testname: EV1_9B

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