

Name _____

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

- 1) Which battery rating is tested at 0°F (-18 C)? 1) _____
 - A) Cold-cranking amperes (CCA)
 - B) Cranking amperes (CA)
 - C) Reserve capacity
 - D) Battery voltage test

- 2) Technician A says the nominal voltage for ONE lead-acid battery cell is 1.2 volts. Technician B says the nominal voltage for ONE NiMH battery cell is 2.1 volts. Which technician is correct? 2) _____
 - A) Technician A only
 - B) Technician B only
 - C) Both technicians
 - D) Neither technician

- 3) A battery high rate discharge (load capacity) test is being performed on a 12 volt battery. Technician A says that a good battery should have a voltage reading of higher than 9.6 volts while under load at the end of the 15-second test. Technician B says that the battery should be discharged (loaded) to twice its CCA rating. Who is right? 3) _____
 - A) Technician A only
 - B) Technician B only
 - C) Both technicians
 - D) Neither technician

- 4) When a battery becomes completely discharged, both positive and negative plates become _____ and the electrolyte becomes _____. 4) _____
 - A) H_2SO_4 ; Pb
 - B) $PbSO_4$; H_2O
 - C) PbO_2 ; H_2SO_4
 - D) $PbSO_4$; H_2SO_4

- 5) What type of battery uses two different electrolytes? 5) _____
 - A) Sodium-metal chloride
 - B) Potassium phosphate
 - C) NiCD
 - D) Lead-acid

- 6) What battery rating is tested at 32°F? 6) _____
 - A) Cold-cranking amperes (CCA)
 - B) Cranking amperes (CA)
 - C) Reserve capacity
 - D) Battery voltage test

- 7) What is the electrolyte used in a NiMH battery? 7) _____
A) Gear acid
B) Sodium H₂O
C) Potassium hydroxide
D) Sulfuric acid
- 8) The HV battery is normally kept at a state of charge (SOC) target of _____ percent. 8) _____
A) 80
B) 20
C) 100
D) 60
- 9) When load testing a battery, which battery rating is usually used to determine how much load to apply to the battery? 9) _____
A) CA
B) RC
C) MCA
D) CCA
- 10) When jump starting, the cables should be held firmly on the battery by hand. 10) _____
A) True
B) False

Answer Key

Testname: HYBRID4_8A

1) A

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2) D

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3) A

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4) B

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5) A

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6) B

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7) C

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8) D

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9) D

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10) B

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