Hybrid an	d Alternative	Fuel Ve	ehicles, 4	th Edition
Quiz 8B				

Name			
name			

4) 7/1.1.1.1	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) How are the high voltage batteries cooled in an HEV?	2)
A) Ice packs	
B) By circulating cabin air	
C) By forced air from under the vehicle	
D) By opening a folding roof flap	
3) Which battery rating is expressed in minutes?	3)
A) Cold-cranking amperes	,
B) Cranking amperes	
C) Reserve capacity	
D) Battery voltage test	
4) Technician A says that the state of charge of a NiMH battery can be determined by measuring	ng 4)
cell voltage. Technician B says that many factors should be considered in determining the st	
of charge of a NiMH battery, including temperature, output current, and cell voltage. Which	
technician is correct?	
A) Technician A only	
B) Technician B only	
C) Both technicians	
D) Neither technician	
5) What is the electrolyte used in a NiMH battery?	5)
A) Gear acid	- /
B) Sodium H ₂ O	
C) Potassium hydroxide	
D) Sulferic acid	
D) building dela	
6) Where are AGM auxiliary batteries usually located in a hybrid electric vehicle?	6)
A) Under the hood	
B) In the trunk/rear area	
C) Under the front fender	
D) Under the front seat	
7) Each cell of an automobile 12 volt battery can produce about volts.	7)
A) 1.2	,
B) 2.1	
C) 4.2	
D) 4	

8) 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? A) Technician A only B) Technician B only C) Both technicians D) Neither technician	8)
9) The internal resistance of a HV battery block as displayed on a scan tool, should be A) 15-40 milliohms B) 45-60 milliohms C) 70-110 milliohms D) Over 110 milliohms	9)
10) When load testing a battery, which battery rating is usually used to determine how much load to apply to the battery? A) CA B) RC C) MCA D) CCA	10)

Answer Key

Testname: HYBRID4_8B

- 1) A Page Ref: 93
- 2) B Page Ref: 103
- 3) C Page Ref: 93
- 4) B
 Page Ref: 103
- 5) C Page Ref: 101
- 6) B Page Ref: 97
- 7) B Page Ref: 90
- 8) A Page Ref: 95
- 9) A Page Ref: 90
- 10) D Page Ref: 95