Automotive	Technology (6th Editi	on
Chapter 51 -	Battery Test	ing and	Service
Quiz 51B			

Quiz 51B	
Name	
MULTIPLE CHOICE. Choose the one alternative that best completes the statement	or answers the question.
 All of these are part of the 3-minute charge test, EXCEPT A) connect battery charger and voltmeter to the battery terminals 	1)

1) All of these are part of the 3-minute charge test, EXCEPT	1)
A) connect battery charger and voltmeter to the battery terminals	, <u> </u>
B) connect battery charger and ammeter to the battery terminals	
C) charge the battery at a rate of 40 amperes for 3 minutes	
D) at the end of three minutes, read the voltmeter	
2) Many vehicle manufacturers recommend that a special electrical connector be installed between	n 2)
the battery and the battery cable when testing for	, <u> </u>
A) battery drain (parasitic drain)	
B) specific gravity	
C) battery voltage	
D) battery charge rate	
,	
3) When load testing a battery, which battery rating is normally used to determine how much loa	d 3)
to apply to the battery?	u 3)
A) CA	
B) RC	
C) MCA	
D) CCA	
D) CCA	
A) TATE in a Color with the contract of the decomposition of the contract of t	4)
4) Which of these is the most accurate test to determine the condition of a battery?	4)
A) Open circuit voltage (OCV) test	
B) Hydrometer test	
C) Load or capacity test	
D) Voltage drop test	
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5) A defective battery causes which of the following symptoms?	5)
A) Slow cranking	
B) Excessive voltage (over 16 volts)	
C) Smooth, clean connectors, indicating overheating of the cables	
D) None of these	
6) What precautions are needed when charging an AGM type battery?	6)
A) Keep the charger away from the battery as far as possible.	
B) Charging amperage should be set to less than 10 amperes.	
C) Charging voltage should be at or below 14.4 volts.	
D) Keep the charging time to less than one hour.	
7) When charging a maintenance–free (lead–calcium) battery,	7)
A) the initial charging rate should be about 35 amperes for 30 minutes	
B) the battery may not accept a charge for several hours, yet still be a good (serviceable)	
battery	
C) the battery temperature should not exceed 125°F (hot to the touch)	
D) all of the above	

8) Technician A says that distilled or clean drinking water should be added to a battery when the	8)	
electrolyte level is low. Technician B says that fresh electrolyte (solution of acid and water)		
should be added. Which technician is correct?		
A) Technician A only		
B) Technician B only		
C) Both technicians		
D) Neither technician		
9) Technician A says that electronic conductance testing can determine CCA, state-of-charge, and	9)	
voltage of the battery. Technician B says that electronic conductance testing can determine if		
there is a bad cell, requiring battery replacement. Who is right?		
A) Technician A only		
B) Technician B only		
C) Both technicians		
D) Neither technician		
10) All of these are required precautions when working around vehicle batteries EXCEPT	10)	
A) no open flames around the battery	· <u></u>	
B) a frozen battery can be warmed by jump starting it		
C) eye protection should be worn		
D) disconnect the negative cable when working on electrical components		

Answer Key

Testname: AT6_51B

- 1) B
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- 2) A
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- 3) D
 - Page Ref: 589
- 4) C
 - Page Ref: 589
- 5) A
- Page Ref: 587
- 6) C
 - Page Ref: 592
- 7) D
 - Page Ref: 591
- 8) A
 - Page Ref: 587
- 9) C
 - Page Ref: 589
- 10) B
 - Page Ref: 586