

Name \_\_\_\_\_

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

- 1) An AGM battery differs from a conventional flooded battery in what way? 1) \_\_\_\_\_
  - A) The electrolyte is absorbed into glass separator and will not spill
  - B) It does not contain electrolyte
  - C) It does not contain lead
  - D) Each cell has a voltage sensor
  
- 2) Cold cranking amps refers to the current a battery produce while sustaining 7.2 volts at what temperature? 2) \_\_\_\_\_
  - A) 0 deg F
  - B) 32 deg F
  - C) 72 deg F
  - D) -10 deg F
  
- 3) To avoid warping the battery plates charging voltage must be kept below \_\_\_\_\_ volts. 3) \_\_\_\_\_
  - A) 13
  - B) 12
  - C) 15.5
  - D) 14
  
- 4) Technician A says that maintenance-free batteries use a large amount of water. Technician B says that maintenance-free batteries use materials that reduce the amount of water used by the battery. Which technician is correct? 4) \_\_\_\_\_
  - A) Technician A only
  - B) Technician B only
  - C) Both technicians A and B
  - D) Neither technician A nor B
  
- 5) Reserve capacity is the number of minutes a battery can produce 10.5 volts with how many amps? 5) \_\_\_\_\_
  - A) 25
  - B) 10
  - C) 20
  - D) 30
  
- 6) Which battery rating is tested at 0°F (-18°C)? 6) \_\_\_\_\_
  - A) Cold-cranking amperes (CCA)
  - B) Cranking amperes (CA)
  - C) Reserve capacity
  - D) Battery voltage test

- 7) Which battery rating is expressed in minutes? 7) \_\_\_\_\_  
A) Cold-cranking amperes  
B) Cranking amperes  
C) Reserve capacity  
D) Battery voltage test
- 8) Deep cycling means \_\_\_\_\_. 8) \_\_\_\_\_  
A) overcharging the battery  
B) overfilling or underfilling the battery with water  
C) the battery is fully discharged and then recharged  
D) the battery is overfilled with acid ( $H_2SO_4$ )
- 9) Which statement is true regarding the internal grids in automotive batteries? 9) \_\_\_\_\_  
A) The grid is made mainly of lead  
B) The lead used to make the grid is enhanced with other elements for durability  
C) Both A and B  
D) Neither A nor B
- 10) Each automotive battery cell has an electrical potential of how many volts? 10) \_\_\_\_\_  
A) 2.1 V  
B) 1.5 V  
C) 12.6 V  
D) None of these

## Answer Key

Testname: AEEP8\_15A

1) A

Page Ref: 227

2) A

Page Ref: 228

3) C

Page Ref: 228

4) B

Page Ref: 222

5) A

Page Ref: 228

6) A

Page Ref: 228

7) C

Page Ref: 228

8) C

Page Ref: 229

9) C

Page Ref: 222

10) A

Page Ref: 223