

Name _____

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

- 1) A fully charged 12-volt battery should indicate _____. 1) _____
 - A) 12.6 volts or higher
 - B) A specific gravity of 1.265 or higher
 - C) 12 volts
 - D) Both A and B

- 2) 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? 2) _____
 - A) Technician A only
 - B) Technician B only
 - C) Both technicians
 - D) Neither technician

- 3) An AGM battery differs from a conventional flooded battery in what way? 3) _____
 - A) The electrolyte is absorbed into a 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.

- 4) Which battery rating is expressed in minutes? 4) _____
 - A) Cold-cranking amperes (CCA)
 - B) Cranking amperes (CA)
 - C) Reserve capacity
 - D) Battery voltage test

- 5) Which statement is true regarding the internal grids in automotive batteries? 5) _____
 - 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

- 6) Battery electrolyte is a mixture of water and which of these? 6) _____
 - A) Sulfuric acid
 - B) Lead peroxide
 - C) Lead sulfate
 - D) Sulfur dioxide

- 7) Which of these BCI group sizes could fit a General Motors vehicle? 7) _____
 - A) 35
 - B) 65
 - C) 24F
 - D) 78

8) Each automotive battery cell has an electrical potential of how many volts? 8) _____
A) 2.1 V
B) 1.5 V
C) 12.6 V
D) None of these

9) Which chemical is used to strengthen lead grids in maintenance-free batteries? 9) _____
A) Calcium
B) Antimony
C) Copper
D) None of these

10) Automotive battery electrolyte contains a large percentage of what substance? 10) _____
A) Water
B) Sulfuric acid
C) Potassium phosphate
D) None of these

Answer Key

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1) D

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2) B

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3) A

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4) C

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5) C

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6) A

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7) D

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8) A

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9) A

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10) A

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