

Name _____

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

- 1) The positive battery plate is _____. 1) _____
 - A) lead dioxide
 - B) brown in color
 - C) sometimes called lead peroxide
 - D) all of the above

- 2) Which chemical is used to strengthen lead grids in maintenance-free batteries? 2) _____
 - A) Calcium
 - B) Antimony
 - C) Copper
 - D) None of these

- 3) A charge indicator (eye) operates by showing green or red when the battery is charged and dark if the battery is discharged. This charge indicator detects _____. 3) _____
 - A) battery voltage
 - B) specific gravity
 - C) electrolyte water pH
 - D) internal resistance of the cells

- 4) Some vehicles use an AGM-type battery. This means that the electrolyte is _____ inside the battery. 4) _____
 - A) a dry powder
 - B) liquid
 - C) absorbed into the separator
 - D) a gel-like form

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

- 6) What battery rating is tested at 32 deg F (0 deg C)? 6) _____
 - A) Cold-cranking amperes (CCA)
 - B) Cranking amperes (CA)
 - C) Reserve capacity
 - D) Battery voltage test

- 7) An AGM battery differs from a conventional flooded battery in what way? 7) _____
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.
- 8) Reserve capacity is the number of minutes a battery can produce 10.5 volts with how many amps? 8) _____
A) 25
B) 10
C) 20
D) 30
- 9) Each automotive battery cell has an electrical potential of how many volts? 9) _____
A) 2.1 V
B) 1.5 V
C) 12.6 V
D) None of these
- 10) Cold cranking amps refers to the current a battery produce while sustaining 7.2 volts at what temperature? 10) _____
A) 0 deg F
B) 32 deg F
C) 72 deg F
D) -10 deg F