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1. “The mass of an ion liberated at an electrode is directly proportional to the quantity of electricity”.

The above statement is associated with

- (a) Newton’s law
- (b) Faraday’s law of electromagnetic
- (c) Faraday’s law of electrolysis
- (d) Gauss’s law

Ans: c

2. The charge required to liberate one gram equivalent of any substance is known as _____ constant

- (a) time
- (b) Faraday’s
- (c) Boltzman

Ans: b

3. During the charging of a lead-acid cell

- (a) its voltage increases
- (b) it gives out energy
- (c) its cathode becomes dark chocolate brown in colour
- (d) specific gravity of H₂SO₄ decreases

Ans: a

4. The capacity of a lead-acid cell does not depend on its

- (a) temperature
- (b) rate of charge
- (c) rate of discharge
- (d) quantity of active material

Ans: b

5. During charging the specific gravity of the electrolyte of a lead-acid battery

- (a) increases
- (b) decreases
- (c) remains the same
- (d) becomes zero

Ans: a

6. The active materials on the positive and negative plates of a fully charged lead-acid battery are

- (a) lead and lead peroxide
- (b) lead sulphate and lead
- (c) lead peroxide and lead
- (d) none of the above

Ans: c

7. When a lead-acid battery is in fully charged condition, the color of its positive plate is

- (a) dark grey
- (b) brown

- (c) dark brown
- (d) none of above

Ans: c

8. The active materials of a nickel-iron battery are

- (a) nickel hydroxide
- (b) powdered iron and its oxide
- (c) 21% solution of KOH
- (d) all of the above

Ans: d

9. The ratio of ampere-hour efficiency to watt-hour efficiency of a lead-acid cell is

- (a) just one
- (b) always greater than one
- (c) always less than one
- (d) none of the above.

Ans: b

10. The best indication about the state of charge on a lead-acid battery is given by

- (a) output voltage
- (b) temperature of electrolyte
- (c) specific gravity of electrolyte
- (d) none of the above

Ans: c