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Score: 20/27 (74.07%)

Code: 3707

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| <p>1. What is the name of the pair of metal strips used in battery cell?</p> <p>A) Cathode B) Electrolyte C) Electrodes (Correct) D) Carbon rod</p> | <p>10. What is the range of current rating of lead acid batteries used in automobiles?</p> <p>A) 5 to 10 Amp B) 10 to 25 Amp C) 2.5 to 4.5 Amp D) 100 to 400 Amp (Correct)</p> |
| <p>2. Which electrolyte is used in lead-acid battery?</p> <p>A) Zinc chloride B) Sulphuric acid (Correct) C) Alkaline solution D) Potassium hydroxide solution</p> | <p>11. What is the colour of positive electrode in fully charged lead acid battery?</p> <p>A) Red colour B) Grey colour C) Reddish brown (Correct) D) Spongy grey colour</p> |
| <p>3. How batteries are classified?</p> <p>A) Dry cells and alkaline cells B) Button cells and lithium cells C) Primary cells and secondary cells (Correct) D) Cylindrical cells and rectangular cells</p> | <p>12. What is the specific gravity of concentrated sulphuric acid?</p> <p>A) 1.175 B) 1.245 C) 1.835 (Correct) D) 1.945</p> |
| <p>4. What is the rated output voltage of a silver oxide cell?</p> <p>A) 1.0 VDC B) 1.5 VDC C) <u>2.5 VDC (Incorrect)</u> D) 4.0 VDC</p> | <p>13. Which energy is converted by the battery to produce electricity?</p> <p>A) Electrical energy into light energy B) Chemical energy into electrical energy (Correct) C) Mechanical energy into electrical energy D) Electrical energy into mechanical energy</p> |
| <p>5. Which battery is used for cellular phones?</p> <p>A) Nickel ion B) Lithium ion (Correct) C) Zinc chloride D) Sodium sulphur</p> | <p>14. What is the total voltage of six 1.5 V cells, connected in series?</p> <p>A) 3 VDC B) 6 VDC C) 9 VDC (Correct) D) 12 VDC</p> |
| <p>6. Which material is used for negative terminal of alkaline manganese dioxide batteries?</p> <p>A) Zinc B) Lithium C) Cadmium <u>D) Nickel hydroxide (Incorrect)</u></p> | <p>15. Which electrolyte is used in maintenance free lead acid batteries?</p> <p>A) Gelled electrolyte (Correct) B) Sodium electrolyte C) Ceramic electrolyte D) Potassium electrolyte</p> |
| <p>7. What is the unit of electric charge?</p> <p>A) Volts <u>B) Hertz (Incorrect)</u> C) Ampere D) Coulomb</p> | <p>16. What is the effect on a secondary cell supplying current to the load?</p> <p>A) Leaking B) Charging C) Unloading D) Discharging (Correct)</p> |
| <p>8. How batteries are classified based on their working?</p> <p>A) Dry cells and alkaline cells B) Button cells and lithium cells C) Primary cells and secondary cells (Correct) D) Cylindrical cells and rectangular cells</p> | <p>17. What is the percentage of sulphuric acid in electrolyte used for lead-acid batteries?</p> <p>A) 12% B) 25% C) 27% (Correct) D) 40%</p> |
| <p>9. What is the rated voltage of a single cell in lead acid battery?</p> <p>A) 1.5 V <u>B) 2.0 V (Incorrect)</u> C) 2.2 V D) 12 V</p> | <p>18. What is the name of the process to maintain the</p> |

recommended level of electrolyte in lead-acid battery cell?

- A) Recharging
C) Charging the cell
- B) Topping up (Correct)**
D) Cycling of the cell

19. What is the electrolyte level maintained above the top of the plates in lead acid battery cells?

- A) 2 mm to 4 mm
C) **10 mm to 15 mm**
- B) 5 mm to 8 mm (Incorrect)
D) 16 mm to 25 mm

20. What is the lowest voltage level of discharging the lead-acid battery?

- A) 1.2 V
C) **1.7 V (Correct)**
- B) 1.5 V
D) 1.85 V

21. Which is the additional percentage of power delivered by the lithium ion compared to NiMH battery?

- A) 0.15
C) **40% (Correct)**
- B) 25%
D) 60%

22. Which battery is made from non-toxic materials?

- A) Lithium ion (Li-Ion)
C) Nickel cadmium (Nicad)
- B) Lithium polymer (Li-Poly)
D) Nickel metal hydride (NiMH) (Correct)

23. Which rechargeable cell is designed with conductive polymer?

- A) Plastic cell (Correct)**
- B) Lead acid cell

- C) Nickel metal hydride cell
- D) Gelled electrolyte lead acid cell

24. Which method is adopted to charge a car battery with voltage rating of 2.3 V per cell?

- A) Float charging method
C) Constant current charging method
- B) Trickle charging method
D) Constant voltage charging method (Correct)

25. What is the use of battery analyzers with rapid-test program?

- A) Test the battery life
C) Test the charging current of battery
- B) Test the load current delivered
D) Indicate the health condition of battery (Correct)

26. Which device is used to test the fully charged condition of a lead acid battery cell?

- A) Multimeter
C) DC voltmeter
- B) Hydrometer (Incorrect)
D) High rate discharge tester

27. Why the load testing is done on the lead-acid battery?

- A) Test the dimensional accuracy (Incorrect)
C) Measure the rated output voltage
- B) Verify the rated power delivery
D) Test I²R power loss in the battery cell