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Score: 19/27 (70.37%)

Code: 5406

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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 <u>D) Spongy grey colour (Incorrect)</u></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 (Correct)
 C) 2.5 VDC 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 <u>B) Lithium (Incorrect)</u>
 C) Cadmium D) Nickel hydroxide</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 B) Hertz
 C) Ampere D) Coulomb (Correct)</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% <u>D) 40% (Incorrect)</u></p> |
| <p>9. What is the rated voltage of a single cell in lead acid battery?</p> <p>A) 1.5 V B) 2.0 V
 C) 2.2 V (Correct) D) 12 V</p> | |

18. What is the name of the process to maintain the recommended level of electrolyte in lead-acid battery cell?

- A) Recharging
- B) **Topping up (Correct)**
- C) Charging the cell
- 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
- B) 5 mm to 8 mm
- C) **10 mm to 15 mm**
- D) 16 mm to 25 mm (Incorrect)

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

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

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

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

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

- A) Lithium ion (Li-Ion)
- B) Lithium polymer (Li-Poly)
- C) Nickel cadmium (Nicad)
- 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
- B) Trickle charging method
- C) Constant current 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
- B) Test the load current delivered
- C) Test the charging current of battery
- 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
- B) Hydrometer (Incorrect)
- C) DC voltmeter
- D) **High rate discharge tester**

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

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