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Score: 6/27 (22.22%)

Code: 4948

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| <p>1. What is the name of the pair of metal strips used in battery cell?</p> <p>A) Cathode (Incorrect) B) Electrolyte
 C) Electrodes D) Carbon rod</p> | <p>C) 2.2 V (Correct) D) 12 V</p> |
| <p>2. Which electrolyte is used in lead-acid battery?</p> <p>A) Zinc chloride B) Sulphuric acid
 C) Alkaline solution <u>D) Potassium hydroxide solution (Incorrect)</u></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>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 <u>D) Cylindrical cells and rectangular cells (Incorrect)</u></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>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>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>5. Which battery is used for cellular phones?</p> <p>A) Nickel ion B) Lithium ion
 C) Zinc chloride <u>D) Sodium sulphur (Incorrect)</u></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
 <u>C) Mechanical energy into electrical energy (Incorrect)</u> D) Electrical energy into mechanical energy</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>14. What is the total voltage of six 1.5 V cells, connected in series?</p> <p>A) <u>3 VDC (Incorrect)</u> B) 6 VDC
 C) 9 VDC D) 12 VDC</p> |
| <p>7. What is the unit of electric charge?</p> <p>A) Volts B) Hertz
 <u>C) Ampere (Incorrect)</u> D) Coulomb</p> | <p>15. Which electrolyte is used in maintenance free lead acid batteries?</p> <p>A) Gelled electrolyte B) Sodium electrolyte
 <u>C) Ceramic electrolyte (Incorrect)</u> D) Potassium electrolyte</p> |
| <p>8. How batteries are classified based on their working?</p> <p>A) <u>Dry cells and alkaline cells (Incorrect)</u> B) Button cells and lithium cells
 C) Primary cells and secondary cells D) Cylindrical cells and rectangular cells</p> | <p>16. What is the effect on a secondary cell supplying current to the load?</p> <p>A) Leaking B) Charging
 <u>C) Unloading (Incorrect)</u> D) Discharging</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</p> | <p>17. What is the percentage of sulphuric acid in electrolyte used for lead-acid batteries?</p> <p>A) 12% <u>B) 25% (Incorrect)</u>
 C) 27% D) 40%</p> |

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

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

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 (Incorrect) B) 25%
C) **40%** D) 60%

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** B) Lead acid cell
C) Nickel metal hydride cell (Incorrect) 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 (Incorrect) D) **Indicate the health condition of battery**

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

- A) Multimeter (Incorrect) B) Hydrometer
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