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Score: 23/27 (85.19%)

Code: 0873

- What is the name of the pair of metal strips used in battery cell?
 - A) Cathode
 - B) Electrolyte
 - C) Electrodes (Correct)**
 - D) Carbon rod
- Which electrolyte is used in lead-acid battery?
 - A) Zinc chloride
 - B) Sulphuric acid (Correct)**
 - C) Alkaline solution
 - D) Potassium hydroxide solution
- How batteries are classified?
 - 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
- What is the rated output voltage of a silver oxide cell?
 - A) 1.0 VDC
 - B) 1.5 VDC (Correct)**
 - C) 2.5 VDC
 - D) 4.0 VDC
- Which battery is used for cellular phones?
 - A) Nickel ion
 - B) Lithium ion (Correct)**
 - C) Zinc chloride
 - D) Sodium sulphur
- Which material is used for negative terminal of alkaline manganese dioxide batteries?
 - A) Zinc (Correct)**
 - B) Lithium
 - C) Cadmium
 - D) Nickel hydroxide
- What is the unit of electric charge?
 - A) Volts
 - B) Hertz
 - C) Ampere
 - D) Coulomb (Correct)**
- How batteries are classified based on their working?
 - 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
- What is the rated voltage of a single cell in lead acid battery?
 - A) 1.5 V
 - B) 2.0 V (Incorrect)
 - C) 2.2 V**
 - D) 12 V
- What is the range of current rating of lead acid batteries used in automobiles?
 - A) 5 to 10 Amp
 - B) 10 to 25 Amp
 - C) 2.5 to 4.5 Amp
 - D) 100 to 400 Amp (Correct)**
- What is the colour of positive electrode in fully charged lead acid battery?
 - A) Red colour
 - B) Grey colour
 - C) Reddish brown (Correct)**
 - D) Spongy grey colour
- What is the specific gravity of concentrated sulphuric acid?
 - A) 1.175
 - B) 1.245
 - C) 1.835 (Correct)**
 - D) 1.945
- Which energy is converted by the battery to produce electricity?
 - 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
- What is the total voltage of six 1.5 V cells, connected in series?
 - A) 3 VDC
 - C) 9 VDC**
 - B) 6 VDC
 - D) 12 VDC (Incorrect)
- Which electrolyte is used in maintenance free lead acid batteries?
 - A) Gelled electrolyte (Correct)**
 - B) Sodium electrolyte
 - C) Ceramic electrolyte
 - D) Potassium electrolyte
- What is the effect on a secondary cell supplying current to the load?
 - A) Leaking
 - B) Charging
 - C) Unloading
 - D) Discharging (Correct)**
- What is the percentage of sulphuric acid in electrolyte used for lead-acid batteries?
 - A) 12%
 - B) 25%
 - C) 27%**
 - D) 40% (Incorrect)
- 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 (Correct)**
- 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 (Correct)**
- D) 1.85 V

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

- A) 0.15
- B) 25%
- C) **40% (Correct)**
- 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 (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
- C) **Measure the rated output voltage (Correct)**
- D) Test I2R power loss in the battery cell