

ITI Quiz - 07-Sep-2026

01:09 PM

Q. ID: ITISKILL1664HM

September 2026

Question Paper

Duration: 30 Mins

Total Marks: 21

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Student Name: _____ Roll No: _____

1. What is the rated voltage of a single cell in lead acid battery?

- A) 12 V
- B) 2.2 V
- C) 1.5 V
- D) 2.0 V

2. What is the unit of electric charge?

- A) Coulomb
- B) Volts
- C) Ampere
- D) Hertz

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

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

4. What is the percentage of sulphuric acid in electrolyte used for lead-acid batteries?

- A) 40%
- B) 12%
- C) 27%
- D) 25%

5. What is the effect on a secondary cell supplying current to the load?

- A) Unloading
- B) Charging
- C) Leaking
- D) Discharging

6. Which battery is used for cellular phones?

- A) Zinc chloride
- B) Sodium sulphur
- C) Lithium ion
- D) Nickel ion

7. Which electrolyte is used in lead-acid battery?

- A) Alkaline solution
- B) Zinc chloride
- C) Sulphuric acid
- D) Potassium hydroxide solution

8. What is the rated output voltage of a silver oxide cell?

- A) 4.0 VDC
- B) 2.5 VDC
- C) 1.5 VDC
- D) 1.0 VDC

9. What is the colour of positive electrode in fully charged lead acid battery?

- A) Red colour
- B) Reddish brown

C) Grey colour

D) Spongy grey colour

10. Which material is used for negative terminal of alkaline manganese dioxide batteries?

- A) Cadmium
- B) Zinc
- C) Lithium
- D) Nickel hydroxide

11. What is the name of the pair of metal strips used in battery cell?

- A) Carbon rod
- B) Cathode
- C) Electrolyte
- D) Electrodes

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

- A) 60%
- B) 0.15
- C) 25%
- D) 40%

13. What is the specific gravity of concentrated sulphuric acid?

- A) 1.245
- B) 1.175
- C) 1.835
- D) 1.945

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

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

15. What is the range of current rating of lead acid batteries used in automobiles?

- A) 10 to 25 Amp
- B) 5 to 10 Amp
- C) 100 to 400 Amp
- D) 2.5 to 4.5 Amp

16. Which energy is converted by the battery to produce electricity?

- A) Electrical energy into mechanical energy
- B) Chemical energy into electrical energy
- C) Electrical energy into light energy
- D) Mechanical energy into electrical energy

17. What is the total voltage of six 1.5 V cells, connected in series?

- A) 12 VDC
- C) 9 VDC

- B) 6 VDC
- D) 3 VDC

18. Which electrolyte is used in maintenance free lead acid batteries?

- A) Potassium electrolyte
- C) Gelled electrolyte
- B) Ceramic electrolyte
- D) Sodium electrolyte

19. How batteries are classified based on their working?

- A) Dry cells and alkaline cells
- C) Button cells and lithium cells
- B) Primary cells and secondary cells
- D) Cylindrical cells and rectangular cells

20. How batteries are classified?

- A) Cylindrical cells and rectangular cells
- C) Primary cells and secondary cells
- B) Button cells and lithium cells
- D) Dry cells and alkaline cells

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

- A) 1.2 V
- C) 1.85 V
- B) 1.5 V
- D) 1.7 V