

Duration: 30 Mins

Total Marks: 25

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1. What is stationary electric charges?

- A) Static charges B) Chemical charges
C) Electrical charges D) Kinetic charges

Answer: A) Static charges

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

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

Answer: B) 2.2 V

3. Which metal has very good conductivity to the electric current?

- A) Gold B) Silver
C) Aluminium D) Copper

Answer: B) Silver

4. How many electrons are contained in coulomb of electric charge?

- A) 6.25×10^{16} electrons B) 6.25×10^{18} electrons
C) 6.25×10^{12} electrons D) 6.25×10^8 electrons

Answer: B) 6.25×10^{18} electrons

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

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

Answer: D) Chemical energy into electrical energy

6. What is the unit of electric charge?

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

Answer: C) Coulomb

7. How many gauge numbers in SWG, changed to double the cross section area of the conductor?

- A) Four gauge sizes increased B) Three gauge sizes decreased
C) Two gauge sizes decreased D) Five gauge sizes increased

Answer: B) Three gauge sizes decreased

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

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

Answer: B) Zinc

9. Which electrical property opposes the flow of electrons?

- A) Power B) Resistance
C) Current D) Voltage

Answer: B) Resistance

10. Which electrical parameter opposes the flow of electrons?

- A) Voltage B) Current
C) Power D) Resistance

Answer: D) Resistance

11. Electrical conductivity of gold is

- A) 100% B) 94%
C) 56% D) 67%

Answer: D) 67%

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

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

Answer: C) Sulphuric acid

13. Which material is used as electrical insulator?

- A) Germanium B) Gallium
C) Aluminium D) Porcelain

Answer: D) Porcelain

14. What are the fundamental properties of insulation materials?

- A) Temperature and electrical hazards B) Low resistance and thermal heat
C) Insulation resistance and dielectric strength D) Length and cross sectional area

Answer: C) Insulation resistance and dielectric strength

15. Which battery is used for cellular phones?

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

Answer: D) Lithium ion

16. How the single strand wire is called?

- A) Hook up wire B) Multi strand wire

- C) Twisted wire D) Flexible wire

Answer: A) Hook up wire

17. Which material conducts electricity?

- A) Paper B) Mica
C) Copper D) Glass

Answer: C) Copper

18. How the movement of electrons through a conductor in a particular direction is called?

- A) Conductance B) Inductance
C) Resistance D) Electric current

Answer: D) Electric current

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

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

Answer: B) Discharging

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

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

Answer: C) Electrodes

21. How batteries are classified?

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

Answer: B) Primary cells and secondary cells

22. What is the purpose of covering provided over the electrical conductor?

- A) Reduce current flow B) Increase current flow
C) Decrease voltage rating D) Protection against weather

Answer: D) Protection against weather

23. Which material contains eight electrons in valency layer?

- A) Conductors B) Intrinsic semiconductors
C) Insulators D) Semiconductors

Answer: C) Insulators

24. What is the shape of standard wire gauge?

- A) Cylindrical glass disk B) Circular metal disk
C) Rectangular plastic disk D) Square metal disk

Answer: B) Circular metal disk

25. What is the unit of electric charge?

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

Answer: D) Coulomb