

Student Name: _____ Roll No: _____

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

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

2. What is stationary electric charges?

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

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

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

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

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

5. What is the unit of electric charge?

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

6. Which material conducts electricity?

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

7. What are the fundamental properties of insulation materials?

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

8. Electrical conductivity of gold is

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

9. Which electrical property opposes the flow of electrons?

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

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

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

11. Which material contains eight electrons in valency layer?

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

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

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

13. Which battery is used for cellular phones?

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

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

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

15. Which material is used as electrical insulator?

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

16. What is the unit of electric charge?

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

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

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

18. How the single strand wire is called?

- A) Hook up wire B) Twisted wire
C) Flexible wire D) Multi strand wire

19. Which electrical parameter opposes the flow of electrons?

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

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

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

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

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

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

- A) Cathode
- B) Electrolyte

C) Electrodes

D) Carbon rod

23. 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

24. What is the shape of standard wire gauge?

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

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

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