



Jobs and Education News

Class 12th Physics

Chapter wise Important Questions

Unit I - ELECTROSTATICS

- 1: Electric field due to dipole at axial and equatorial line
- 2: Torque on dipole in a uniform electric field
- 3: Gauss's theorem & its applications
- 4: Coulomb's law & its vector form
- 5: superposition principle
- 6: Equi-potential surfaces
- 7: Electric potential due to dipole at any point
- 8: parallel plate capacitor
- 9: Numericals on combination of capacitor

10: Energy stored in capacitor

11: Effects of dielectric on capacitor

Unit II - CURRENT ELECTRICITY

1: Drift velocity

2: Ohms law

3: Kirchhoff's law

4: Meter bridge and potentiometer

5: Numerical on wheat stone bridge and Kirchhoff's law

6: Color coding of carbon

7: Concept of Resistance, conductance, temperature dependence of Resistance.

Unit III - MAGNETIC EFFECTS OF ELECTRIC CURRENT

1: BIOT-SAVART law & its applications current circular loop

2: Motion of charged particle in a magnetic field

3: Cyclotron

4: Galvanometer and its conversion to Ammeter and voltmeter

5: Ampere's Circuital law & its applications

6: Force between two parallel current

7: torque on a current loop

8: Dipole movement

9: paramagnetic material

10: Earth's magnetism

Unit IV - ELECTROMAGNETIC INDUCTION AND ALTERNATING CURRENT

1: Self induction

2: Mutual induction

3; Lenz's law

4: Eddy current and its applications

5: rms value of current

6: Series LCR circuit

7: transformer

8: power in an AC circuit

9: Resonance

Unit V - ELECTROMEGNITIC WAVES

1: IDEA OF displacement current

2: Uses of EM waves

3: Frequency range of EM waves

Unit VI - OPTICS

1: Mirror formula

2: Total internal reflection

3: Reflection at spherical surfaces

4: Lens makers formula

5: power of lens (numerical)

6: refraction through prism

7: optical instruments

8: Hygiene s principle

9: Youngs double slit exp

10: Polarization

Unit VII - DUAL NATURE OF MATTER

1: Photoelectric effect

2: Einstein s photoelectric equation

3: Davison s experiment

4: Numerical on work function

Unit VIII - ATOM AND NUCLEUS

1: BHORS postulates

2: Expression for energy of electron

3: spectral lines of H- atom

4: Half life period

5: Radioactive decay

6: B. E per Nuclion graph

7: definitions of atomic mass, isotopes, isotones

Unit IX - ELECTRONIC DEVICES

1: Depletion region formation

2: Rectifier (full wave)

3: Uses of LED, solar cell, photo diode, zenar diode

4: N and p type semiconductor

5: conductor, insulator, semiconductor, logic gates.

Unit X - COMMUNICATION SYSTEM

1: Elements of communication system

2: Band width signal

3: Skt/ space wave propagation

4: production and deduction of Amplitude Modulated wave.

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