35 Most IMPORTANT Topics

Class-12 PHYSICS Term-1

CH - 1st Electric Charges & Fields

1. Gauss Theorem and it's application
2. Electric field due to dipole
   - axial
   - equatorial
   - at any point.
3. Torque on dipole
4. Coulomb's law & it's vector Form
5. Potential Energy of a dipole in E.F

CH-2 Electric Potential & Capacitance

6 • Equipotential surface and it's properties

7 • Energy stored in a Capacitor

8 • Capacitance of a ||el plate Capacitor with dielectric.

9 • Capacitor Combinations

10 • Potential energy of a System of Charges

CH-3 Current Electricity

11 • Concept of Drift velocity

12 • Temperature Dependence of Resistance

13 • Combinations of Cell

14 • Kirchhoff's Law

15 • Potentiometer

16 • Slide wire Bridge

CH-4 Moving Charges & Magnetism

17 • Ampere's Circuital Law

18 • Solenoid, M.F due to Solenoid

19 • Toroid, M.F due to Toroid

20 • force between two parallel Currents

21 • Biot's Law & it's application.

22 • Galvanometer and it's Conversion

23 • Torque on a rectangular loop in M.F

CH-5 Magnetism & Matter

24 • The Earth's Magnetism

25 • Solenoid equivalent to Bar Magnet.

CH-6 Electromagnetic Induction

26 • Lenz's law

27 • Mutual inductance of Two Solenoid

28 • Self inductance of a Solenoid

29 • A.C Generator

30 • Motional EMF

CH-7 Alternating Current

31 • Series LCR Circuit

32 • Resonance Circuit / Condition

33 • R.M.S Value of i and V

34 • Power Consumed in a.c circuit

35 • Transformer.