

Weightage

1) Electric charges & field	→ 8
2) Electric potential & capacitance	→ 8
3) Current Electricity	→ 12
4) Moving charges & Magnetism	→ 12
5) Electromagnetic waves	→ 6
6) Atoms	→ 8
7) Nuclei	→ 8
8) Magnetism & Matter	→ 8

Total marks : 70

QP Pattern

Total - 33 questions

A → 12 MCQ + 4 A.R (16 x 1 = 16)

B → 5 Qs - 2M (5 x 2 = 10) - 1 OR Question

C → 7 Qs - 3M (7 x 3 = 21) - 1 OR Question

D → 2 CB - 4M (2 x 4 = 8) - 1 OR Question in each of 2m only

E → 3 Qs - 5M (3 x 5 = 15) - 3 OR Qs

Ch-4 Numerical

- * Biot Savart's law * Ampere circuital law
- * Moving coil galvanometer
- * Force b/w parallel conductors
- * Torque
- * Lorentz force.

Derivations

Ch - 4

- * Biot savart's law - Circular loop
- * Ampere circuital law - straight conductor - points outside/inside
- * Force b/w two parallel conductors carrying current
- * Moving Coil Galvanometer

ch - 5

- * Magnetisation and magnetising Intensity/Field

ch - 12 (Atoms)

- * Radius and Total energy of ~~nth~~ electron in the nth orbit

ch - 14

- * Nuclear density
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Graph/concept/Numerical/definition

ch - 13 - Nuclei

- * B.E/nucleo * P.E versus γ * Q value
- * Radius of nuclei * Nuclear force

ch - 12

- * Distance of closest approach, impact parameter,
- * Excitation, ionisation potential - K.E, P.E and T.E (Num)
- * Frequency, wavelength (Num)