

Bachelor of Science (B.Sc.) Semester—I Examination
PHYSICS (Electrostatics Time Varying Fields & Electric Currents)
Optional Paper—2

Time : Three Hours]

[Maximum Marks : 50]

- Note :— (1) All questions are compulsory.
 (2) Draw neat diagrams wherever necessary.
 (3) The symbols have their usual meaning unless otherwise stated.

EITHER

1. (A) State and explain Coulomb's law in vacuum. Prove that Coulomb's law is in accordance with the Newton's third law of motion. 5
- (B) (i) Obtain an expression for work done on a charge by an electric field, expressed as line integral of electric field. 4
- (ii) Distance between proton and electron in hydrogen atom is 5.3×10^{-11} m. What is Coulomb's Force between them? 2
- (Given : $1/4 \pi \epsilon_0 = 9 \times 10^9 \text{ N.m}^2/\text{C}^2$)

OR

- (C) Derive an expression for electric potential at a point due to point charge. 2+
- (D) Explain electric field due to linear charge distribution? 2+
- (E) What do you mean by conservative field? Show that electrostatic field is conservative. 2+
- (F) Two charges + 5 coulomb and + 15 coulomb are located at points (2, - 4, 3) and (- 3, 2, 1) meter. Calculate the force on +15 coulomb charge. 2+

EITHER

2. (A) Define Electric field intensity (E), Displacement density (D) and Polarization (P). Derive the relation between D, E and P. 5
- (B) (i) Derive Clausius-Mossotti equation by considering local field $E_{\text{loc}} = E + \frac{P}{3\epsilon_0}$. 5
- (ii) Find the area of the paper used in condenser of capacity 0.002 μF , if the dielectric constant of a paper is 2.5 and thickness is 0.05 mm. 2
- ($\epsilon_0 = 8.85 \times 10^{-12} \text{ S.I.}$).

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