

III Semester B.Sc. Examination, Nov./Dec. 2018
(CBCS) (2017-18 and Onwards)
(Fresh + Repeaters)
PHYSICS – III
Electricity and Magnetism

Time : 3 Hours

Max. Marks : 70

Instruction : Answer any five questions from each Part.

PART – A

Answer any five questions. Each question carries eight marks. (5×8=40)

1. a) What is an ideal voltage source ? Represent V-I characteristics of ideal and practical voltage sources.
 - b) State and explain Norton's theorem. (3+5)
2. a) Derive an expression for the self inductance of a solenoid.
 - b) Derive an expression for the growth of current in LR circuit connected to a d.c. source. (3+5)
3. a) Mention the conditions for a moving coil galvanometer to be dead beat.
 - b) Explain with a neat diagram the experimental determination of high resistance by leakage using ballistic galvanometer. (3+5)
4. a) State and prove Ampere's circuital law.
 - b) Using Ampere's circuital law obtain an expression for magnetic field at a point inside a long solenoid carrying current. (4+4)
5. a) Write the equation of continuity. What is its physical significance ?
 - b) Write the four Maxwell's field equations. Derive $\nabla \times \vec{E} = -\frac{\partial \vec{B}}{\partial t}$. (2+6)
6. a) Derive $\nabla^2 \vec{E} = \mu_0 \epsilon_0 \frac{\partial^2 \vec{E}}{\partial t^2}$.
 - b) State Poynting theorem. (6+2)

P.T.O.

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