

5 Marks

Unit - 1

- 1] Azazel position / Broad Side Position
- 2] Parallel plate Condensers
- 3] Combination of Capacitance
- 4] Prove Gauss's theorem / Any one Application
- 1] Gauss's theorem by Coulomb's inverse
- 1] Explain transformer, Types, working Diagram, loss, formula,
- 1] L-C-R circuit (1) Resultant Voltage
- 1] Impedance (3) Phase difference.

and drift velocity.

- 6] Combination of Cell / Internal Resistance
- 7] Relation E.M.F., Internal Resistance, P.V.
- 8] Biot-Savart's Law Explain.
- 9] Magnetic field intensity at centre of a Circular Coil
- 10] Explain Cyclotron
- 11] Magnetic field inside a Current carrying Solenoid.
- 12] Difference Voltmeter and galvanometer.

3 MARKS

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- 1] Explain Kirchhoff's laws words
- 2] Prove wheatstone bridge 7
- 3] Explain principle of Potentiometer
- 4] Explain meter bridge
- 5] Relationship between electric current and drift velocity.
- 6] Combination of Cell / Internal Resist
- 7] Relation EMF, Internal resistance, P.V

3] Chlorobenzene

4 Marks

1] P-N Junction diode

2] Full wave rectifier / Half wave

3] Logic gate

4] Difference between P and N Type Semiconductor, Insulator, Semiconductor

4) Prove Gauss's theorem / Any one Application

5] Gauss's theorem by Coulomb inverse

6] Explain transformer, Types, working Diagram, loss, formula,

7] L-C-R circuit (1) Resultant Voltage  
2) Impedance (3) Phase difference

8]  $M = \sqrt{L_1 L_2}$

9] Self induction, Derive expression for self induction of a long Solenoid.

10] A C Dynamo