

**Unit - I****Chapter 1 : DC Circuits 1-1 to 1-28**

Syllabus : Idea of electric potential, EMF, Current, Power and Energy. Introduction of Resistor, Inductor and Capacitor, Effect of temperature on resistance of conductor. **Ohm's law** : Applications and Limitations, Kirchhoff's voltage law and Kirchhoff's current law, **Types of connections** : Series and Parallel connections of resistors, **Battery** : Concept of cell and Battery, Rating of battery, Series and Parallel connection of batteries, Applications.

1.1	Network or Circuit	1-2	1.11.1	Circuit Element.....	1-10
1.2	Idea of EMF and Current.....	1-2	1.11.2	Open Circuit.....	1-10
1.2.1	EMF.....	1-2	1.11.3	Short Circuit	1-10
1.2.2	Current.....	1-2	1.11.4	Branch.....	1-10
1.3	Idea of Electric Potential	1-3	1.11.5	Mesh or Loop.....	1-11
1.3.1	Potential Difference (P.D.).....	1-3	1.11.6	Node or Junction	1-11
1.3.2	Difference between EMF and PD	1-3	1.12	Kirchhoff's Laws.....	1-11
1.4	Concept of Power (P).....	1-4	1.12.1	Kirchhoff's Current Law (KCL).....	1-11
1.5	Concept of Energy (E)	1-4	1.13	Mesh or Loop and Sign Convention.....	1-12
1.6	Resistors	1-5	1.13.1	Kirchhoff's Voltage Law (KVL)	1-13
1.6.1	Resistance (R).....	1-5	1.14	Types of Connections	1-14
1.6.2	Factors Affecting the Resistance Value.....	1-5	1.14.1	Series Connection of Resistors	1-14
1.6.3	Resistivity or Specific Resistance (ρ)... 1-6		1.14.2	Parallel Connection of Resistors.....	1-15
1.7	Capacitors.....	1-6	1.14.3	Division of Voltage in the Series Connected Resistors.	1-15
1.7.1	Capacitance	1-7	1.15	Batteries and Cells.....	1-16
1.8	Inductors	1-7	1.15.1	Cells	1-16
1.8.1	Effect of Temperature on Resistance of Conductors	1-8	1.15.2	Battery	1-16
1.9	Resistance Temperature Coefficient (R.T.C.).... 1-8		1.15.3	Primary and Secondary Cells.....	1-16
1.9.1	Expression for Resistance at $t^{\circ}\text{C}$	1-9	1.16	The Lead-Acid Cell	1-17
1.10	Ohm's Law.....	1-9	1.16.1	Construction.....	1-17
1.10.1	Limitations of ohm's law.....	1-10	1.16.2	Working of a Lead - Acid Cell	1-17
1.10.2	Applications of ohm's Law.....	1-10	1.17	Batteries.....	1-19
1.11	Important Definitions.....	1-10	1.17.1	Battery Types	1-19
			1.18	Characteristics of a Battery	1-19
			1.18.1	Cell Efficiency.....	1-20
			1.18.2	Ratings of Batteries	1-20
			1.19	Series and Parallel Connection of Batteries.....	1-21
			1.19.1	Series Connection of Batteries.....	1-21
			1.19.2	Parallel Connection of Batteries.....	1-22
			1.20	Applications of Batteries.....	1-22
			1.21	1 Mark or 2 Marks UQs with Answers	1-27
				• Review Questions.....	1-22

**Unit - II****Chapter 2 : AC Fundamentals 2-1 to 2-32**

Syllabus : Generation of Alternating EMF, **Basic Terminology** : Cycle, Time - period, Amplitude, Frequency, RMS value, Average value, Form factor, Peak factor, Pure resistor, Inductor and Capacitor with AC supply, Power triangle and Power factor.

2.1	Introduction	2-2	2.12.3	Conversion from Polar to Rectangular	2-16
2.2	AC Waveforms	2-2	2.12.4	Rectangular to Polar Conversion	2-16
2.2.1	Types of AC Waveforms	2-2	2.13	Addition and Subtraction of Phasors	2-16
2.2.2	Sinusoidal AC Waveforms	2-2	2.13.1	Multiplication and Division of Phasors	2-16
2.3	Generation of Alternating EMF	2-3	2.14	Single Phase AC Circuits	2-17
2.3.1	Derivation for the Induced EMF	2-4	2.14.1	Reactance and Impedance	2-17
2.4	Basic Terminology	2-5	2.14.2	Inductive Reactance (X_L)	2-18
2.4.1	Waveform	2-6	2.14.3	Capacitive Reactance (X_C)	2-18
2.4.2	Instantaneous Value	2-6	2.14.4	Impedance (Z)	2-18
2.4.3	Cycle	2-6	2.15	Pure Resistor with AC Supply	2-18
2.4.4	Time Period or Periodic Time (T)	2-6	2.15.1	Analysis of the Purely Resistive AC Circuit	2-18
2.4.5	Frequency	2-7	2.15.2	Voltage and Current Equations	2-18
2.4.6	Amplitude	2-7	2.15.3	Voltage and Current Waveforms	2-19
2.4.7	Angular Velocity (ω)	2-7	2.15.4	Phasor Diagram	19
2.5	Peak and Peak to Peak Value	2-7	2.15.5	Power in Purely Resistive AC Circuits	2-19
2.6	Effective or R.M.S. Value	2-8	2.15.6	Average Power	2-19
2.7	Average Value	2-9	2.15.7	Impedance of the Purely Resistive Circuit	2-19
2.8	Form Factor (K_f)	2-11	2.16	Pure Inductance with AC Supply	2-20
2.9	Crest Factor or Peak Factor (K_p)	2-12	2.16.1	Equations for Current i and Voltage v	2-20
2.10	Phasor Representation of an Alternative Quantity	2-12	2.16.2	Waveforms and Phasor Diagram	2-21
2.11	Phase of an Alternating Quantity	2-13	2.16.3	Power in a Purely Inductive Circuit ..	2-21
2.11.1	Phase Angle	2-13	2.16.4	Impedance of a Purely Inductive Circuit	2-21
2.11.2	Phase Difference	2-13	2.17	Pure Capacitor with AC Supply	2-22
2.11.3	Leading and Lagging Phase Difference	2-13	2.17.1	Equations for Voltage and Current ..	2-22
2.12	Mathematical Representation of Phasor	2-15	2.17.2	Current and Voltage Waveforms	2-23
2.12.1	Polar Representation	2-15	2.17.3	Power in a Purely Capacitive Circuit	2-23
2.12.2	Rectangular Representation	2-15	2.17.4	Impedance of a Purely Capacitive Circuit	2-23
			2.18	Important Terms Related to Power	2-24



2.18.1	Apparent Power (S).....	2-24
2.18.2	Real Power or True Power or Active Power (P).....	2-24
2.18.3	Reactive Power or Imaginary Power (Q).....	2-24
2.18.4	Power Factor	2-25
2.18.5	Importance (Significance) of Power Factor	2-25
2.18.6	Causes and Effects of Low Power Factor	2-26
2.18.7	Power Triangle.....	2-26
2.19	1 Mark or 2 Marks UQs with Answers	2-32
•	Review Questions	2-26

Unit - II

Chapter 3 : Three Phase AC Circuits 3-1 to 3-16

Syllabus : Generation of 3-phase alternating EMF, **Types of 3-phase connection** : Star and Delta connection with vector diagram.

3.1	Introduction to Polyphase AC Circuits.....	3-2
3.1.1	Three Phase Supply Waveforms	3-2
3.2	Advantages of Three Phase Systems over Single Phase System	3-2
3.2.1	Comparison of 1- Phase and 3-Phase Systems	3-3
3.3	Generation of 3-Phase AC EMF.....	3-3
3.3.1	Symmetrical or Balanced System.....	3-4
3.3.2	Concept of Phase Sequence	3-4
3.4	Three Phase Supply Connections	3-4
3.4.1	Star Connection (Wye Connection)....	3-5
3.4.2	Delta Connection.....	3-5
3.5	Types of Loads	3-5
3.5.1	Balanced or Unbalanced Load	3-5
3.6	A 3-Phase Star Connected Supply	3-6
3.6.1	Line Voltages and Phase Voltages.....	3-6
3.6.2	Relation between Phase and Line Current.....	3-7
3.6.3	Relation between Phase and Line Voltages.	3-7

3.6.4	The Complete Phasor Diagram.....	3-8
3.6.5	Expression for Three Phase Power	3-8
3.6.6	Power Factor for a Star Load.....	3-9
3.7	A 3-Phase Delta Connected Supply	3-9
3.7.1	Line Voltages and Phase Voltages	3-9
3.7.2	Line Current and Phase Current for Delta Connection	3-10
3.7.3	Relation between I_L and I_{ph}	3-10
3.7.4	The Complete Phasor Diagram.....	3-11
3.7.5	Expression for Three Phase Power ...	3-11
3.7.6	Power Factor for Delta Load.....	3-12
3.8	Power Relations for Delta Load	3-12
3.8.1	Power Factor.....	3-12
3.9	Comparison of Star and Delta Systems.....	3-12
3.9.1	Applications of 3-phase Circuit	3-13
3.10	1 Mark or 2 Marks UQs with Answers	3-16
•	Review Questions.....	3-13

Unit - III

Chapter 4 : Electromagnetic Induction and Inductors 4-1 to 4-32

Syllabus : Electromagnetic induction Faraday's law, Lenz's law, Fleming's right hand rule for generators, Fleming's left hand rule for motors, Statically and Dynamically induced EMF, **Inductance** : Self and Mutual inductance, Types of inductor, Energy stored in magnetic field.

4.1	Introduction.....	4-2
4.1.1	Magnet.....	4-2
4.1.2	Electromagnets	4-2
4.2	Definitions Related to Magnetism.....	4-2
4.2.1	Magnetic Field.....	4-2
4.2.2	Magnetic Flux ϕ	4-2
4.2.3	Magnetic Flux Density (B)	4-2
4.2.4	Magnetic Field Strength (H).....	4-2
4.3	Permeability	4-3
4.3.1	Absolute Permeability (μ)	4-3



4.3.2	Permeability of Free Space or Vacuum (μ_0).....	4-3	4.12.2	Self Inductance.....	4-16
4.3.3	Relative Permeability (μ_r)	4-3	4.12.3	Factors Affecting the Self Inductance	4-17
4.4	MMF, Reluctance and Permeance.....	4-4	4.12.4	Mutually Induced E.M.F.....	4-17
4.4.1	Magneto motive Force (MMF).....	4-4	4.12.5	Mutual Inductance (M).....	4-18
4.4.2	Reluctance (S).....	4-4	4.12.6	Expression for Mutual Inductance....	4-18
4.4.3	Permeance	4-5	4.12.7	Coefficient of Coupling (K).....	4-19
4.5	Magnetic Circuit.....	4-5	4.12.8	Comparison of Statically and Dynamically Induced E.M.F.	4-19
4.5.1	Comparisons of Magnetic and Electrical Circuits.....	4-5	4.13	Types of Inductor.....	4-20
4.6	B-H Curve or Magnetization Curve.....	4-6	4.14	Energy Stored in the Magnetic Field	4-21
4.6.1	Magnetic Hysteresis and Hysteresis Loop.....	4-7	4.15	1 Mark or 2 Marks UQs with Answers.....	4-31
4.6.2	Hysteresis Loss	4-7		• Review Questions.....	4-23
4.6.3	Hysteresis Loop for Magnetic and Non-Magnetic Materials	4-8	Unit - IV		
4.7	Concept of useful Flux, Leakage Flux and Fringing.....	4-9	Chapter 5 : Green Electrical Energy 5-1 to 5-08		
4.7.1	Leakage Flux.....	4-9	Syllabus : Need of green energy, Classification of green energy, Solar energy : PV cell, Panel and Array, Block diagram of solar power system, Solar roof top, Wind energy : Types of wind turbine, Block diagram of wind power system.		
4.7.2	Magnetic Fringing.....	4-9	5.1	Green Energy.....	5-2
4.8	Electromagnetic Induction	4-10	5.2	Need of Green Energy	5-2
4.8.1	Faraday's Laws of Electromagnetic Induction.....	4-10	5.3	Classification of Green Energy.....	5-2
4.8.2	Direction of Induced E.M.F.	4-11	5.4	A PV Cell.....	5-4
4.8.3	Fleming's Right Hand Rule for Generators.....	4-11	5.4.1	PV Panel.....	5-4
4.8.4	Lenz's Law	4-12	5.4.2	The Solar Photovoltaic Array.....	5-4
4.9	Fleming's Left Hand Rule for Motors.....	4-13	5.4.3	Photovoltaic Array Connections.....	5-5
4.10	Nature of the Induced E.M.F.	4-14	5.5	Solar Power System	5-6
4.11	Dynamically Induced E.M.F.	4-14	5.6	Wind Energy or Wind Power.....	5-6
4.11.1	Magnitude of Dynamically Induced E.M.F.	4-14	5.7	Wind Turbine.....	5-6
4.12	Statically Induced E.M.F.....	4-15	5.7.1	Construction of Wind Turbine	5-6
4.12.1	Self Induced E.M.F.....	4-16	5.7.2	Types of Wind Turbine.....	5-7
			5.8	Wind Power System.....	5-7
				• Review Questions.....	5-08

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