



S No.	Chapter	Class and Subject	Episode Title
1	Relations and Functions	Maths XII	Introduction to Relations
1	Relations and Functions	Maths XII	Introduction to Functions
1	Relations and Functions	Maths XII	Problems on Functions
1	Relations and Functions	Maths XII	Composition of Functions
1	Relations and Functions	Maths XII	Problems on Composition
1	Relations and Functions	Maths XII	Binary Operations
2	Inverse Trigonometric Functions	Maths XII	Introduction: Inverse Trigonometry
2	Inverse Trigonometric Functions	Maths XII	Properties of Inverse Trigonometry
3	Matrices	Maths XII	Introduction to Matrices
3	Matrices	Maths XII	Matrix Operations
3	Matrices	Maths XII	Transpose of a Matrix
3	Matrices	Maths XII	Elementary Operations
4	Determinants	Maths XII	Introduction to Determinants
4	Determinants	Maths XII	Minors & Cofactors
4	Determinants	Maths XII	Properties of Determinants
4	Determinants	Maths XII	Properties and Applications
4	Determinants	Maths XII	Solving Simultaneous Equations
5	Continuity and Differentiability	Maths XII	Continuity
5	Continuity and Differentiability	Maths XII	Differentiability and Chain rule
5	Continuity and Differentiability	Maths XII	Differentiation: Implicit Functions
5	Continuity and Differentiability	Maths XII	Diff. of Exponential Functions
5	Continuity and Differentiability	Maths XII	Logarithmic Functions
5	Continuity and Differentiability	Maths XII	Diff. of Parametric Functions
5	Continuity and Differentiability	Maths XII	Second Order Derivatives
5	Continuity and Differentiability	Maths XII	Mean Value Theorems
6	Applications of derivatives	Maths XII	Rate of Change and Approximations
6	Applications of derivatives	Maths XII	Increasing & Decreasing Functions
6	Applications of derivatives	Maths XII	Tangents and Normals
6	Applications of derivatives	Maths XII	Maxima - Minima-I Derivative Test
6	Applications of derivatives	Maths XII	Maxima - Minima-II Derivative Test
7	Integrals	Maths XII	Introduction to Integration
7	Integrals	Maths XII	Integration by Substitution
7	Integrals	Maths XII	Integrals of Trig. Identities
7	Integrals	Maths XII	Integrals of Special Functions
7	Integrals	Maths XII	Integration by Partial Fractions
7	Integrals	Maths XII	Integration by Parts
7	Integrals	Maths XII	More Problems on Integration
7	Integrals	Maths XII	Limit of a Sum
7	Integrals	Maths XII	Evaluating Definite Integrals
7	Integrals	Maths XII	Properties of Definite Integrals
7	Integrals	Maths XII	Problems on Definite Integrals



8	Applications of Integrals	Maths XII	Area Between a Curve and a Line
8	Applications of Integrals	Maths XII	Area Between two Curves
9	Differential Equations	Maths XII	Intro: Differential Equations
9	Differential Equations	Maths XII	Variable Separable Form
9	Differential Equations	Maths XII	Homogenous Differential Equations
9	Differential Equations	Maths XII	Linear Differential Equations
10	Vector Algebra	Maths XII	Introduction to Vector Algebra
10	Vector Algebra	Maths XII	Properties of Vectors
10	Vector Algebra	Maths XII	Scalar Product of two Vectors
10	Vector Algebra	Maths XII	Cross Product
11	Three Dimensional Geometry	Maths XII	Introduction to 3 - D Geometry
11	Three Dimensional Geometry	Maths XII	Cartesian Equation of a Line
11	Three Dimensional Geometry	Maths XII	Skew Lines
11	Three Dimensional Geometry	Maths XII	Equation of Plane
11	Three Dimensional Geometry	Maths XII	Intercept Form and Family of Planes
11	Three Dimensional Geometry	Maths XII	Distance of a Point From a Plane
12	Linear Programming	Maths XII	Introduction to Linear Programming
12	Linear Programming	Maths XII	Optimal Solutions
12	Linear Programming	Maths XII	Solution of Linear Prog Problems
13	Probability	Maths XII	Intro to Conditional Probability
13	Probability	Maths XII	Independent Events
13	Probability	Maths XII	Baye's Theorem
13	Probability	Maths XII	Distribution of Random Variables
13	Probability	Maths XII	Mean and Variance : Random Variables
13	Probability	Maths XII	Binomial Distribution
4	Determinants	Maths XII	Revision: Matrices & Determinants
13	Probability	Maths XII	Problems on probability
1	Electric Charges and Fields	Phy XII	Electric Charge
1	Electric Charges and Fields	Phy XII	Gold Leaf Electroscope
1	Electric Charges and Fields	Phy XII	Coulomb's law
1	Electric Charges and Fields	Phy XII	Electric field
1	Electric Charges and Fields	Phy XII	Electric flux
1	Electric Charges and Fields	Phy XII	Electric dipole
1	Electric Charges and Fields	Phy XII	Gauss law
2	Electrostatic Potential and Capacitance	Phy XII	Electrostatic potential
2	Electrostatic Potential and Capacitance	Phy XII	Equipotential surfaces
2	Electrostatic Potential and Capacitance	Phy XII	Electrostatic potential energy
2	Electrostatic Potential and Capacitance	Phy XII	Electrostatics of conductors
2	Electrostatic Potential and Capacitance	Phy XII	Electrostatics of dielectrics
2	Electrostatic Potential and Capacitance	Phy XII	Capacitors
2	Electrostatic Potential and Capacitance	Phy XII	Combination of capacitors
3	Current Electricity	Phy XII	Ohm's law
3	Current Electricity	Phy XII	Resistance
3	Current Electricity	Phy XII	Resistance and Resistivity
3	Current Electricity	Phy XII	Combination of resistors
3	Current Electricity	Phy XII	emfs and internal resistance
3	Current Electricity	Phy XII	Combination of Cells
3	Current Electricity	Phy XII	Kirchhoff's rules



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3	Current Electricity	Phy XII	Electrical appliances
4	Moving Charges and Magnetism	Phy XII	Magnetic Lorentz Force
4	Moving Charges and Magnetism	Phy XII	Motion in combined E & B fields
4	Moving Charges and Magnetism	Phy XII	Biot savart law
4	Moving Charges and Magnetism	Phy XII	Ampere's law
4	Moving Charges and Magnetism	Phy XII	The Solenoid and Toroid
4	Moving Charges and Magnetism	Phy XII	Force on current carrying wire
4	Moving Charges and Magnetism	Phy XII	Torque on current carrying loop
5	Magnetism and Matter	Phy XII	Magnetic properties
6	Electromagnetic Induction	Phy XII	Magnetic flux
6	Electromagnetic Induction	Phy XII	Faraday's laws of induction
6	Electromagnetic Induction	Phy XII	Motional emf
6	Electromagnetic Induction	Phy XII	Eddy Currents
6	Electromagnetic Induction	Phy XII	Inductance
6	Electromagnetic Induction	Phy XII	AC Generator
7	Alternating Current	Phy XII	AC applied across resistor
7	Alternating Current	Phy XII	AC applied across capacitor
7	Alternating Current	Phy XII	AC applied across Inductor
7	Alternating Current	Phy XII	AC applied to LCR in series
7	Alternating Current	Phy XII	Resonance in AC circuits
7	Alternating Current	Phy XII	Power in AC circuit
8	Electromagnetic Waves	Phy XII	Characteristics of em waves
8	Electromagnetic Waves	Phy XII	Electromagnetic Spectrum
9	Ray Optics & Optical Instruments	Phy XII	Reflection by spherical mirrors
9	Ray Optics & Optical Instruments	Phy XII	Refraction by plane surfaces
9	Ray Optics & Optical Instruments	Phy XII	Total internal reflection
9	Ray Optics & Optical Instruments	Phy XII	Refraction at spherical surfaces
9	Ray Optics & Optical Instruments	Phy XII	Refraction by lens
9	Ray Optics & Optical Instruments	Phy XII	Refraction & dispersion by prism
9	Ray Optics & Optical Instruments	Phy XII	Optical instruments
10	Wave Optics	Phy XII	Interference of light
10	Wave Optics	Phy XII	Diffraction of light
10	Wave Optics	Phy XII	Polarisation
11	Dual nature of Radiation and matter	Phy XII	Photoelectric effect
11	Dual nature of Radiation and matter	Phy XII	Dual nature of matter
13	Nuclei	Phy XII	Atomic nucleus
13	Nuclei	Phy XII	Radioactivity
14	Semiconductor Electronics	Phy XII	PN diode
14	Semiconductor Electronics	Phy XII	Applications of pn diode
14	Semiconductor Electronics	Phy XII	Transistors
14	Semiconductor Electronics	Phy XII	Applications of transistors
14	Semiconductor Electronics	Phy XII	Logic gates
15	Communication Systems	Phy XII	Signals & Transmission Systems
15	Communication Systems	Phy XII	Modulation & Detection of Signals
1	The Solid State	Chem XII	Crystalline and amorphous solids
1	The Solid State	Chem XII	Crystal lattice
1	The Solid State	Chem XII	3 dimensional packing
1	The Solid State	Chem XII	Packing efficiency
1	The Solid State	Chem XII	Dimensions of Unit cells
1	The Solid State	Chem XII	Imperfections in Crystals
2	Solutions	Chem XII	Strength of solutions
2	Solutions	Chem XII	Ideal solutions
2	Solutions	Chem XII	Boiling and freezing pt. of Soln.
2	Solutions	Chem XII	Osmosis and osmotic pressure



2	Solutions	Chem XII Association & dissociation
3	Electrochemistry	Chem XII Electrochemical Cells
3	Electrochemistry	Chem XII Standard electrode potential
3	Electrochemistry	Chem XII Nernst equation
3	Electrochemistry	Chem XII Conductivity of Solutions
3	Electrochemistry	Chem XII Kohlrausch's Law
3	Electrochemistry	Chem XII Electrolysis
3	Electrochemistry	Chem XII Batteries
3	Electrochemistry	Chem XII Corrosion
4	Chemical Kinetics	Chem XII Rate of a chemical reaction
4	Chemical Kinetics	Chem XII Order and Molecularity of reaction
4	Chemical Kinetics	Chem XII Integrated rate equation
4	Chemical Kinetics	Chem XII Temp. Dependence of reaction
4	Chemical Kinetics	Chem XII Collision theory
5	Surface Chemistry	Chem XII Adsorption
5	Surface Chemistry	Chem XII Catalysis
5	Surface Chemistry	Chem XII Types of Colloids
5	Surface Chemistry	Chem XII Properties of colloids
5	Surface Chemistry	Chem XII Emulsions
6	Isolation of elements	Chem XII Occurrence and extraction
6	Isolation of elements	Chem XII Principles of metallurgy
7	The p-Block Elements.	Chem XII Trends in properties of p block
7	The p-Block Elements.	Chem XII Nitrogen and its compounds
7	The p-Block Elements.	Chem XII Phosphorus and its compounds
7	The p-Block Elements.	Chem XII Oxygen
7	The p-Block Elements.	Chem XII Halogens
8	The d and f Block Elements	Chem XII Introduction to d - block elements
8	The d and f Block Elements	Chem XII Properties of d-Block elements
8	The d and f Block Elements	Chem XII Important compounds of d block
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9	Coordination Compounds	Chem XII Intro to Coordination compounds
10	Haloalkanes and Haloarenes	Chem XII Characteristics of halo compounds.
10	Haloalkanes and Haloarenes	Chem XII General methods of preparation
10	Haloalkanes and Haloarenes	Chem XII Chemical properties
10	Haloalkanes and Haloarenes	Chem XII Polyhalogen compounds
11	Alcohols, Phenols and Ethers	Chem XII Preparation of alcohols & phenols
11	Alcohols, Phenols and Ethers	Chem XII Properties of alcohols
11	Alcohols, Phenols and Ethers	Chem XII Characteristics of phenols
11	Alcohols, Phenols and Ethers	Chem XII Ethers-preparation and properties
12	Aldehydes, Ketones and Carboxylic Acids	Chem XII General study of C=O group
12	Aldehydes, Ketones and Carboxylic Acids	Chem XII Aldehydes and ketones
13	Amines	Chem XII Study of nitrogen functional group
13	Amines	Chem XII Preparation of amines
13	Amines	Chem XII Properties of amines
14	Biomolecules	Chem XII Carbohydrates
14	Biomolecules	Chem XII Proteins and enzymes
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15	Polymers	Chem XII Classification of polymers
15	Polymers	Chem XII Addition and condensation polymers
16	Chemistry in Everyday life	Chem XII Therapeutic Action of drugs
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