

NOTE FOR SELECTION PAPER 2023-24

SYLLABUS:

Syllabus of Physics and Chemistry of all four sets is as follows:

PHYSICS

11 th	12 th
Motion in a Straight Line (excluded-Position time graph, Speed & Velocity)	Electric Charge and Fields (excluded- Uniformly charged thin spherical shell)
Motion in a Plane	Electrostatic Potential and Capacitor
Law of Motions (Newton's 2 nd Law, Momentum & Friction)	Current Electricity (excluded- carbon resistor & colour code, series & parallel combination)
Work, Power and Energy	Moving Charges and Magnetism (excluded- cyclotron)
Thermodynamics (excluded- heat engine & refrigerator)	Electromagnetic Induction
Simple Harmonic Motion	Alternating Current (excluded- power factor & wattles current)
	Ray optics (refraction through curved surfaces, Lens & Lens maker formula)

CHEMISTRY

11 th	12 th
Some Basic Concepts of Chemistry	Solid State (exclude- electrical & magnetic properties , semiconductor part)
Structure of Atom (excluded- Thomson's & Rutherford's Model)	Solution (exclude- abnormal molar mass, Van't Hoff factor)
Classification of Elements and Periodicity	Electrochemistry (exclude- types of cell & law of electrolysis)
Chemical Bonding	Chemical Kinetics (exclude- concept of collision theory, activation energy & Arrhenius equation)
Gaseous State (exclude- liquefaction of gases, Kinetic energy & Molecular Speed)	The P-Block (exclude- preparation & properties of phosphine, sulphuric acid, oxides of nitrogen, phosphorous, halides & Oxo acids)
Basic Concepts of Organics Chemistry (exclude- methods of purification & quantitative analysis)	Coordination compounds (exclude- structure & stereoisomerism)
	Haloalkanes and Haloarenes (exclude- uses of all compounds)
	Alcohol, Phenol and Ether (exclude- uses with reference to methanol & ethanol)

BOTANY & ZOOLOGY

11th BOTANY	12th BOTANY
Cell Cycle and Cell Division	Reproduction In Organism
Photosynthesis In Higher Plants	Principles Of Inheritance & Variations
Morphology of flowering Plants	Molecular Basis Of Inheritance
Anatomy of Flowering Plants	Biodiversity & Conservation
The Living World	
Biological Classification	
Plant Kingdom	
11th ZOOLOGY	12th ZOOLOGY
Animal Kingdom	Human Reproduction
Structural Organisation in Animals	Evolution
Digestion and Absorption	Human Health & Disease
Excretory Products and their Elimination	Biotechnology-Principle & Process
Neural Control and Coordination	Biotechnology & its Application
Chemical Coordination and Integration	