

[For English/Hindi Medium Students]

## PHYSICS

M. No.	S. No.	Topic Covered
P-01	1	Basic Mathematics used in physics & Vectors
P-01	2	Units and Measurement
P-01	3	Kinematics (Motion along a straight line and motion in a plane)
P-01	4	Newton's Laws of motion & Friction
P-02	1	Work, Energy & Power
P-02	2	Circular Motion
P-02	3	Centre of Mass & Collisions
P-02	4	Rotational Motion
P-02	5	Gravitation
P-02	6	Properties of matter and Fluid Mechanics
P-04	1	Electrostatics
P-04	2	Current Electricity
P-04	3	Capacitor
P-03	1	Thermal Physics
P-03	2	Oscillations (SHM)
P-03	3	Wave Motion
P-05	1	Magnetic effect of current and Magnetism
P-05	2	Electromagnetic Induction (EMI)
P-05	3	Alternating Current (AC)
P-05	4	Electromagnetic Waves (EMW)
P-06	1	Ray optics and optical Instruments
P-06	2	Wave Optics
P-06	3	Modern Physics-I (Dual nature of radiation and matter)
P-06	4	Modern Physics-II (Nuclei)
P-06	5	Modern Physics-III (Atoms)
P-06	6	Semiconductor & Digital Electronics

## CHEMISTRY

M. No.	S. No.	Topic Covered
C-01	1	Some Basic concept of chemistry
C-01	2	Atomic Structure
C-01	3	Chemical Equilibrium
C-01	4	Ionic Equilibrium
C-01	5	Thermodynamics & Chemical Energetics
C-01	6	Redox Reaction
C-02	1	Periodic Table
C-02	2	Chemical Bonding
C-04	1	Chemical kinetics
C-04	2	Solutions
C-04	3	Electrochemistry
C-03	1	Classification & Nomenclature
C-03	2	Isomerism
C-03	3	Fundamental concept in organic reaction mechanism
C-03	4	Hydrocarbons
C-03	5	Purification methods, Qualitative and

C-05	1	Quantitative analysis of organic compounds
C-05	2	p-Block Elements
C-05	3	d and f-Block Elements
C-06	1	Co-ordination Compounds
C-06	2	Haloalkanes and Haloarenes
C-06	3	Alcohol, Phenol and Ether
C-06	4	Aldehydes, Ketones and Carboxylic acids
C-06	5	Amines
C-06	6	Biomolecules

## BIOLOGY

M. No.	S. No.	Topic Covered
B-01	1	The Living World
B-01	2	Biological Classification
B-01	3	Plant Kingdom
B-02	1	Morphology of Flowering plants
B-02	2	Anatomy of Flowering plants
B-02	3	Cell : The unit of life
B-02	4	Cell cycle and cell division
B-04	1	Animal Kingdom
B-04	2	Structural organisation in animals (Animal Tissues)
B-04	3	Cockroach ( <i>Periplaneta americana</i> )
B-04	4	Frog
B-07	1	Human Reproduction
B-07	2	Reproductive Health
B-07	3	Human Health and Diseases
B-07	4	Origin and Evolution of Life
B-08	1	Sexual reproduction in Flowering Plant
B-08	2	Ecology and Demography (Organism & Environment)
B-03	1	Enzymes
B-03	2	Photosynthesis in Higher plants
B-03	3	Respiration in plants
B-03	4	Plant growth and Development
B-03	5	Biomolecules (Protoplasm)
B-05	1	Breathing and exchange of gases
B-05	2	Body Fluids and Circulation
B-05	3	Excretory Products & their Elimination
B-06	1	Neural Control and Coordination (Nervous System)
B-06	2	Chemical Co-ordination & Integration (Endocrine System)
B-06	3	Locomotion and movement (Skeletal System)
B-06	4	Locomotion and movement (Limb Muscles)
B-09	1	Genetics (Principles of Inheritance and Variations)
B-09	2	Genetics (Molecular Basis of Inheritance)
B-10	1	Biotechnology
B-10	2	Microbes in Human Welfare