

[For English/Hindi/Gujarati Medium Students]

**PHYSICS**

M. No.	S. No.	Topic Covered
P-1	1.	Basic Mathematics used in Physics & Vectors
P-1	2.	Physical World, Units, Dimensions and Errors in Measurement.
P-1	3.	Kinematics (Motion along a straight line and Motion in a plane)
P-1	4.	Newton's Laws of Motion and Friction
P-4	1.	Electrostatics
P-4	2.	Current Electricity
P-4	3.	Capacitors
P-2	1.	Work, Power & Energy
P-2	2.	Circular Motion
P-2	3.	Centre of Mass & Collisions
P-2	4.	Rotational Motion
P-2	5.	Gravitation
P-2	6.	Properties of Matter and Fluid Mechanics.
P-5	1.	Magnetic effect of current and Magnetism
P-5	2.	Electromagnetic Induction (EMI)
P-5	3.	Alternating current
P-5	4.	Electromagnetic Waves
P-3	1.	Thermal Physics (Thermal Expansion, Calorimetry, Heat Transfer, KTG & Thermodynamics)
P-3	2.	Oscillations (SHM, damped and forced oscillations & Resonance)
P-3	3.	Wave Motion and Doppler's Effect.
P-6	1.	Ray Optics and optical Instruments
P-6	2.	Wave Optics (Nature of Light, Interference, Diffraction & Polarization)
P-6	3.	Modern Physics
P-6	4.	Semiconductor and Digital Electronics

**CHEMISTRY**

M. No.	S. No.	Topic Covered
C-1	1.	Some Basic Concept of Chemistry
C-1	2.	Structure of Atom
C-1	3.	Chemical Equilibrium
C-1	4.	Ionic Equilibrium
C-1	5.	Chemical Thermodynamics & Energetics
C-1	6.	Redox Reactions
C-1	7.	Behavior of Gases
C-2	1.	Periodic Table
C-2	2.	Chemical Bonding
C-2	3.	s-Block Elements
C-2	4.	Hydrogen & its compounds
C-4	1.	Solid State
C-4	2.	Chemical Kinetics
C-4	3.	Solutions
C-4	4.	Electrochemistry
C-4	5.	Surface Chemistry
C-3	1.	Classification & Nomenclature
C-3	2.	Isomerism
C-3	3.	Reaction Mechanism-I
C-3	4.	Reaction Mechanism-II

C-3	5.	Hydrocarbons
C-3	6.	Environmental Chemistry
C-5	1.	p-Block Elements (Group 13 to 18)
C-5	2.	d and f Block Elements
C-5	3.	Coordination Compounds
C-5	4.	Metallurgy
C-6	1.	Halogen Derivatives
C-6	2.	Oxygen Containing Organic Compounds
C-6	3.	Nitrogen Containing Organic Compounds
C-6	4.	Biomolecules, Polymers, Chemistry in Everyday Life

**BIOLOGY**

M. No.	S. No.	Topic Covered
B-1	1.	Reproduction in Organisms
B-1	2.	Human Reproduction
B-1	3.	Sexual Reproduction in Flowering Plants
B-1	4.	Human Health & Diseases
B-4	1.	Diversity In Living World (Plant Diversity)
B-4	2.	Morphology of Flowering Plants
B-4	3.	Anatomy of Flowering Plants.
B-5	1.	Animal Kingdom (Animal Diversity)
B-5	2.	Animal Tissues (Structural Organization in Animals)
B-5	3.	Periplaneta (Cockroach)
B-5	4.	Plasmodium & Frog
B-2	1.	Genetics (Principals of inheritance and variations)
B-2	2.	Genetics (Molecular basis of inheritance)
B-2	3.	Biotechnology
B-2	4.	Microbes in human welfare
B-2	5.	Strategies for enhancement in food production (Plants Breeding)
B-2	6.	Biomolecules
B-6	1.	Plant Physiology
B-6	2.	Cell Biology (Cell Structure, Function & Cell Division)
B-3	1.	Organism & Environment (Ecology) & Demography
B-3	2.	Origin & Evolution of life
B-3	3.	Strategies for enhancement in food production (Domestication of Animals)
B-7	1.	Digestion & Absorption
B-7	2.	Breathing & Exchange of Gases
B-7	3.	Body Fluids & Circulation
B-7	4.	Excretory Products & their elimination
B-8	1.	Neural control & coordination (Nervous System)
B-8	2.	Chemical coordination & integration (Endocrine system)
B-8	3.	Sensory Organs
B-8	4.	Locomotion and Movement (Skeletal System, Limbs, Muscles)