

[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, Dimension 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.	Capacitor
P-2	1.	Work, Energy & Power
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 (AC)
P-5	4.	Electromagnetic Waves (EMW)
P-3	1.	Thermal Physics
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
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 & it's 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	The Living World
B-1	2	Biological Classification
B-1	3	Plant Kingdom
B-2	1	Morphology of Flowering plants
B-2	2	Anatomy of Flowering plants
B-2	3	Cell: The unit of life
B-2	4	Cell cycle and Cell division
B-4	1	Animal Kingdom
B-4	2	Structural organisation in Animals (Animal Tissues)
B-4	3	Cockroach (Periplaneta americana)
B-4	4	Earthworm and Frog
B-5	1	Digestion and Absorption
B-5	2	Excretory products & their elimination
B-5	3	Locomotion and movement (Skeletal system)
B-5	4	Locomotion and movement (Limb muscles)
B-6	1	Breathing and exchange of gases
B-6	2	Body fluids and circulation
B-8	1	Reproduction in organisms
B-8	2	Human Reproduction
B-8	3	Reproductive Health
B-8	4	Sexual reproduction in flowering plants
B-3	1	Enzymes
B-3	2	Transport in Plants
B-3	3	Mineral Nutrition
B-3	4	Photosynthesis in Higher plants
B-3	5	Respiration in Plants
B-3	6	Plant growth and Development
B-7	1	Neural control and coordination (Nervous System)
B-7	2	Chemical co-ordination and integration (Endocrine System)
B-7	3	Sensory Organs
B-9	1	Genetics: Principles of Inheritance and variations
B-9	2	Genetics: Molecular basis of inheritance
B-10	1	Biotechnology : Principles & Processes and Applications
B-10	2	Microbes in human welfare
B-10	3	Strategies for enhancement in food production (Plant Breeding)
B-10	4	Biomolecules (Protoplasm)
B-11	1	Human health and Disease
B-11	2	Origin & Evolution of life
B-11	3	Strategies for enhancement in food production (Animal Husbandry)
B-12	1	Organism and Environment (Ecology)
B-12	2	Demography