

[For both English/Hindi Medium Students]

PHYSICS

Test No.	Topic Covered
01	Basic Mathematics used in Physics, Vectors, Units, Dimensions and Measurement, Electrostatics
02	Kinematics (Motion along a straight line and Motion in a plane), Current electricity
03	Laws of Motion and Friction, Capacitors
04	Review Test - 1 : Syllabus of Test No. 1, 2 & 3
05	Work, Energy & Power, Circular Motion, Magnetic effect of current and Magnetism
06	Conservation Laws-Collisions and Centre of Mass, Electromagnetic Induction (EMI)
07	Review Test - 2 : Syllabus of Test No. 1 to 6
08	Rotational Motion, Alternating current
09	Thermal Physics (Thermal Expansion, Calorimetry, Heat Transfer, KTG & Thermodynamics), Ray optics and optical Instruments
10	Properties of matter and Fluid Mechanics, Gravitation, Wave optics (Nature of Light, Interference, Diffraction & Polarisation), EM Waves
11	Review Test - 3 : Syllabus of Test No. 8, 9 & 10
12	Oscillations (SHM, damped and forced oscillations & Resonance), Modern Physics
13	Wave Motion and Doppler's Effect, Electronics and Communication systems
14	Review Test - 4 : Syllabus of Test No. 8 to 13
15-24	Full Syllabus

CHEMISTRY

Test No.	Topic Covered
01	Mole Concept, Atomic structure, Organic nomenclature, Basic principles of practical organic chemistry
02	Periodic properties, Basic inorganic nomenclature, Chemical thermodynamics & Thermochemistry
03	GOC (complete)
04	Review Test - 1 : Syllabus of Test No. 1, 2 & 3
05	Chemical Bonding, Solid state, Chemical kinetics
06	Isomerism, Chemical Equilibrium, State of matter (gaseous state), Redox & equivalent concept
07	Review Test - 2 : Syllabus of Test No. 1 to 6
08	Ionic Equilibrium, Acid Base theory, Nuclear chemistry, Reaction intermediate.

09	Co-ordination compound, s-block elements & hydrogen, Boron & Carbon family.
10	Haloalkane, Aryl Halide (Substitution & Elimination), Electrochemistry & Solution, Ores & Metallurgy.
11	Review Test - 3 : Syllabus of Test No. 8, 9 & 10
12	Alkane, Alkenes & Alkynes, Aromatic hydrocarbon, Organic compounds containing oxygen & nitrogen, Qualitative analysis.
13	Biomolecules (Carbohydrates, Amino Acid, Proteins), Polymer, Practical organic chemistry (Identification of elements & functional groups), Chemistry in everyday life, Environmental chemistry, Surface chemistry, d & f block element, p-block (nitrogen, oxygen, fluorine & noble gas) family.
14	Review Test - 4 : Syllabus of Test No. 8 to 13
15-24	Full Syllabus

MATHEMATICS

Test No.	Topic Covered
01	Trigonometric Ratios and Identities, Matrices & Determinants
02	Quadratic Equations & Linear Inequalities, Functions and Inverse Trigonometric Function
03	Trigonometric Equations, Height & Distance, Differential, Calculus (Limit, Continuity, Differentiability, Differentiation)
04	Review Test - 1 : Syllabus of Test No. 1, 2 & 3
05	Point and Straight Line, Indefinite integration
06	Circle, Definite integration
07	Review Test - 2 : Syllabus of Test No. 1 to 6
08	Sequences and Series, Application of Derivatives (Maxima & Minima, Monotonicity, Tangent & Normal)
09	Permutation & Combination and Binomial Theorem, Vectors
10	Complex Numbers, Principle of Mathematical Induction, Three Dimensional geometry,
11	Review Test - 3 : Syllabus of Test No. 8, 9 & 10
12	Parabola, Ellipse & Hyperbola, Area under the curve and Differential Equations
13	[Sets, Relation, Statistics, Mathematical Reasoning], Probability
14	Review Test - 4 : Syllabus of Test No. 8 to 13
15-24	Full Syllabus