

[For both English/Hindi Medium Students]

## PHYSICS

### Test No. Topic Covered

01	Basic Mathematics used in Physics, Vectors, Units & Dimensions and Measurement
02	Kinematics
03	Laws of Motion and Friction
04	Review Test - 1 : Syllabus of Test No. 1, 2 & 3
05	Work, Energy & Power
06	Centre of Mass & Collisions
07	Review Test - 2 : Syllabus of Test No. 1 to 6
08	Rotational Motion
09	Thermal Physics (Thermal Expansion, Calorimetry, Heat Transfer, KTG & Thermodynamics, Second law of Thermodynamics, Carnot engine and its efficiency)
10	Gravitation, Properties of matter and Fluid Mechanics
11	Review Test - 3 : Syllabus of Test No. 8, 9 & 10
12	Simple Harmonic Motion
13	Waves (String & Sound waves)
14	Review Test - 4 : Syllabus of Test No. 8 to 13
15-19	Full Syllabus

## CHEMISTRY

### Test No. Topic Covered

01	Mole Concept
02	Atomic structure
03	Periodic properties, Basic inorganic nomenclature
04	Review Test - 1 : Syllabus of Test No. 1, 2 & 3
05	Chemical Bonding
06	Redox & equivalent concept, Chemical Equilibrium
07	Review Test - 2 : Syllabus of Test No. 1 to 6
08	Organic nomenclature, Basic principles of practical organic chemistry, State of matter (gaseous state)
09	Ionic Equilibrium, Acid Base theory, s-block elements & hydrogen, Boron & Carbon family.
10	GOC (application of electronic effect, aromaticity, application of Inductive, Resonance, Hyperconjugation

effect on stability of intermediates).

11	Review Test - 3 : Syllabus of Test No. 8, 9 & 10
12	GOC (acidic & basic strength), isomerism (Geometrical & Structural).
13	Alkane, Alkenes & Alkynes, Chemical thermodynamics & Thermochemistry, Aromatic hydrocarbon, environmental chemistry.
14	Review Test - 4 : Syllabus of Test No. 8 to 13
15-19	Full Syllabus

## MATHEMATICS

### Test No. Topic Covered

01	Logarithms, Trigonometric Ratios and Identities
02	Quadratic Equations & Linear Inequalities
03	Trigonometric Equations, Height and Distance
04	Review Test - 1 : Syllabus of Test No. 1, 2 & 3
05	Point and Straight Line
06	Circle
07	Review Test - 2 : Syllabus of Test No. 1 to 6
08	Sequences and Series
09	Permutation & Combination and Binomial Theorem
10	Complex Numbers, Principle of Mathematical Induction
11	Review Test - 3 : Syllabus of Test No. 8, 9 & 10
12	Parabola, Ellipse & Hyperbola
13	Functions, [Limits and Derivatives and Three Dimensional Geometry, Probability (All Elementary Level)], [Sets, Relation, Statistics, Mathematical Reasoning]
14	Review Test - 4 : Syllabus of Test No. 8 to 13
15-19	Full Syllabus