

[For both English/Hindi Medium Students]

PHYSICS**Test No. Topics Covered**

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| 1 | Basic Maths used in Physics, Vectors, Unit & Dimension, Geometrical Optics (Ray Optics, Optical Instruments) |
| 2 | Kinematics 1-D (Motion in 1D), Kinematics 2-D (Projectile Motion), Electrostatics |
| 3 | Newton Laws of Motion and Friction, Gravitation |
| 4 | Review Test -1: Syllabus of Test No. 1, 2 & 3 |
| 5 | Current Electricity, Circular Motion |
| 6 | Work, Power, Energy, Capacitance (Capacitors) |
| 7 | Semi Major Test -1: Syllabus of Test No. 1 to 6 |
| 8 | Centre of Mass (Momentum & Collision), Magnetic Effect of Current |
| 9 | Rotational Motion, Electromagnetic Induction (EMI) |
| 10 | Alternating current, Elasticity, Thermal Expansion, Calorimetry, Heat Transfer |
| 11 | Review Test -2: Syllabus of Test No. 8, 9 & 10 |
| 12 | KTG, Thermodynamics, Wave on String, Sound Wave, EM Waves, Wave optics |
| 13 | Fluid Mechanics, SHM, Modern Physics, Error in Measurements & Instruments, Semiconductor |
| 14 | Semi Major Test -2: Syllabus of Test No. 8 to 13 |
| 15-24 | Full Syllabus |

CHEMISTRY**Test No. Topics Covered**

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| 1 | Mole Concept & Eudiometry, Concentration Terms (Mole Concepts), Liquid Solution |
| 2 | Quantum Number & Electronic Configuration (Atomic structure), Periodic Table & Periodic Properties, Chemical Kinetics |
| 3 | Chemical Bonding, Thermodynamics - 01, Thermochemistry, Thermodynamics - 02 (Chemical Thermodynamics & Energetics) |
| 4 | Review Test -1: Syllabus of Test No. 1, 2 & 3 |
| 5 | Redox & Equivalent Concepts, Coordination Chemistry |
| 6 | Nomenclature & Common Names, Electronic Displacement Effects, Halogen Derivatives, Alcohol & Ether, Hydrocarbon |

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| 7 | Semi Major Test -1: Syllabus of Test No. 1 to 6 |
| 8 | Electronic Displacement Effects, Carbonyl Compound, Oxidation, Reduction, Aldol & Similar Name Reactions |
| 9 | Acidic Strength & Basic Strength, Electrochemistry, Atomic Structure (Up to Bohr Model) |
| 10 | Atomic Structure, Salt Analysis, Heating Effect, Reactions of Salt Analysis (Practical Chemistry) |
| 11 | Review Test -2: Syllabus of Test No. 8, 9 & 10 |
| 12 | Chemical Equilibrium, Ionic Equilibrium, d-Block Compounds, p-Block Element, f-Block Element |
| 13 | Isomerism, Purification & Characteristics of Organic Compounds, Carboxylic Acids & Its Derivative, Aliphatic Amines, Aromatic Compounds, Biomolecules, Practical Organic Chemistry, Separation Techniques |
| 14 | Semi Major Test -2: Syllabus of Test No. 8 to 13 |
| 15-24 | Full Syllabus |

MATHEMATICS**Test No. Topics Covered**

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| 1 | Sets, Numbers & Intervals, Fundamental of Algebra (Basic Maths), Quadratic Equations, Function, Inverse Trigonometric Function |
| 2 | Logarithms (Basic Maths), Sequence & Series, Limit, Continuity & Differentiability |
| 3 | Trigonometric Ratio & Identities, Method of Differentiation, Application of Derivative |
| 4 | Review Test -1: Syllabus of Test No. 1, 2 & 3 |
| 5 | Trigonometric Ratio & Identities, Fundamental of Geometry, Indefinite Integration |
| 6 | Straight Line, Determinant, Definite Integration |
| 7 | Semi Major Test -1: Syllabus of Test No. 1 to 6 |
| 8 | Circle, Area Under The Curve, Differential Equation |
| 9 | Parabola, Ellipse, Hyperbola (Conic Section), Matrices |
| 10 | Permutation & Combination, Binomial Theorem, Vectors |
| 11 | Review Test -2: Syllabus of Test No. 8, 9 & 10 |
| 12 | 3-Dimensional Geometry, Complex Number |
| 13 | Relation, Statistics, Probability |
| 14 | Semi Major Test -2: Syllabus of Test No. 8 to 13 |
| 15-24 | Full Syllabus |