

[For both English/Hindi Medium Students]

## PHYSICS

### Test No. Topic Covered

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|-------|---|
| 1     | Basic Maths Used In Physics , Unit & Dimension , Vectors , Geometrical Optics                                   |
| 2     | Kinematics - 1D, 2D, Electrostatics   |
| 3     | Newton Laws of Motion , Friction, Gravitation   |
| 4     | Review Test -1 : Syllabus of Test No. 1, 2 & 3  |
| 5     | Circular Motion, Current Electricity  |
| 6     | Work, Power, Energy, Capacitance  |
| 7     | Semi Major Test -1 : Syllabus of Test No. 1 to 6  |
| 8     | Center of Mass , Momentum & Collision , Magnetic Effect of Current  |
| 9     | Rotational Motion, Electromagnetic Induction (EMI)  |
| 10    | Elasticity, Thermal Expansion , Calorimetry & Heat Transfer, Alternating Current                                |
| 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 , Simple Harmonic Motion , Modern Physics , Error In Measurements & Instruments , Semiconductor |
| 14    | Semi Major Test -2 : Syllabus of Test No. 8 to 13   |
| 15-28 | Full Syllabus   |

## CHEMISTRY

### Test No. Topic Covered

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|---|---|
| 1 | Mole Concept & Eudiometry , Concentration Terms Solid State, Liquid Solution                                      |
| 2 | Quantum Number & Electronic Configuration , Periodic Table & Periodic Properties , Chemical Kinetics              |
| 3 | Chemical Bonding, Thermodynamics - 01, Thermochemistry, Thermodynamics - 02                                       |
| 4 | Review Test -1 : Syllabus of Test No. 1, 2 & 3  |
| 5 | Redox & Equivalent Concepts , Coordination Chemistry, Metallurgy  |
| 6 | Nomenclature & Common Names , Electronic Displacement Effects, Halogen Derivatives , Alcohol & Ether, Hydrocarbon |
| 7 | Semi Major Test -1 : Syllabus of Test No. 1 to 6  |
| 8 | Electronic Displacement Effects , Carbonyl Compound , Oxidation , Reduction , Aldol & Similar Name Reactions      |

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| 9     | Acidic Strength & Basic Strength , Ideal Gas , Real Gas, Atomic Structure (Upto Bohr Model), Electrochemistry  |
| 10    | Atomic Structure , Surface Chemistry , Salt Analysis , Heating Effect, Reactions of Salt Analysis  |
| 11    | Review Test -2 : Syllabus of Test No. 8, 9 & 10  |
| 12    | Chemical Equilibrium, Ionic Equilibrium, s - Block Element & d - Block Compounds , p - Block Element , Hydrogen and Its Compounds, f - Block Element , Environmental Chemistry   |
| 13    | Isomerism , Purification & Characteristics Of Organic Compounds , Carboxylic Acids & Its Derivative , Aliphatic Amines , Aromatic Compounds , Biomolecules , Polymer And Practical Organic Chemistry , Separation Techniques , Chemistry In Every Day Life |
| 14    | Semi Major Test -2 : Syllabus of Test No. 8 to 13  |
| 15-28 | Full Syllabus  |

## MATHEMATICS

### Test No. Topic Covered

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|-------|---|
| 1     | Sets , Numbers & Intervals , Fundamental of Algebra , Quadratic Equations , Function , Inverse Trigonometric Function |
| 2     | Logarithms , 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, Trigonometric Equation , 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, Matrices  |
| 10    | Permutation & Combination , Binomial Theorem , Vectors  |
| 11    | Review Test -2 : Syllabus of Test No. 8, 9 & 10   |
| 12    | Complex Number, 3- Dimensional Geometry   |
| 13    | Relation, Statistics, Probability   |
| 14    | Semi Major Test -2 : Syllabus of Test No. 8 to 13   |
| 15-28 | Full Syllabus   |