

[For both English/Hindi Medium Students]

PHYSICS

Test No. Topic Covered

- | | |
|-------|---|
| 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

- | | |
|---|---|
| 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 |

- | | |
|-------|--|
| 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

- | | |
|-------|--|
| 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 |