

All India Test Series Syllabus for Advanced

| Test | Class-XI | | Class-XII |
|------|-----------|---|--|
| PT-1 | Physics | Essential Mathematics, Units & Dimensions, Vectors, Motion in One Dimension, Motion in Two Dimension, Projectile Motion, Relative Motion, Circular Motion, Newton's Law of Motion, Friction | Essential Mathematics, Units & Dimensions, Vectors, Motion in One Dimension, Motion in Two Dimension, Projectile Motion, Relative Motion, Circular Motion, Newton's Law of Motion, Friction, Work, Power & Energy, Momentum, Center of Mass, Conservation of Energy & Momentum, Rigid Body Dynamics, Rotational Motion |
| | Chemistry | Atomic Structure, Periodic Table, Chemical Bonding | Atomic Structure, Periodic Table, Chemical Bonding, Basic Concepts of Chemistry, Redox and Volumetric Analysis, Gaseous State, Chemical equilibrium |
| | Maths | Logarithm and Modulus Function, Quadratic Equation, Trigonometric Ratios | Logarithm and Modulus Function, Quadratic Equation, Trigonometric Ratios, Trigonometric Equations, Progressions, Permutation and Combination |
| PT-2 | Physics | Work, Power & Energy, Momentum, Center of Mass, Conservation of Energy & Momentum, Rigid Body Dynamics, Rotational Motion | Simple Harmonic Motion (SHM), Gravitation, Properties of Matter, Elasticity, Surface Tension, Viscosity, Hydrostatics, Fluid Dynamics, Calorimetry, Thermal Expansion, Kinetic Theory of Gases, Law of Thermodynamics, Heat Transfer, Transverse Waves, Longitudinal Waves, Doppler's Effect in Mechanical Waves |
| | Chemistry | Basic Concepts of Chemistry, Redox and Volumetric Analysis, Gaseous State, Chemical equilibrium | Acid Base, Ionic equilibrium, Chemical Energetic, Classification & Nomenclature, Isomerism (Except Optical Isomerism and Tautomerism), GOC-1 (Brief Idea of Electronic Displacement Effects) Hydrocarbons (Preparation Methods, Physical and Chemical Properties without Optical Isomerism Application), s-block Elements, p-block elements [Part-1(Boron and Carbon Family)], Hydrogen and It's Compounds |
| | Maths | Trigonometric Equations, Progressions, Permutation and Combination | Binomial Theorem, Point and Straight Line, Circle, Parabola, Ellipse and Hyperbola, Properties of Triangle and Radii of Circle |
| PT-3 | Physics | Simple Harmonic Motion (SHM), Gravitation, Properties of Matter, Elasticity, Surface Tension, Viscosity, Hydrostatics, Fluid Dynamics, Calorimetry, Thermal Expansion | Electrostatics, Gauss Law, Capacitance & Capacitor, Current Electricity, Heating Effect of Current, Magnetic effect of Current, Electromagnetic Induction, Alternating Current |
| | Chemistry | Acid Base, Ionic equilibrium, Chemical Energetic, Classification & Nomenclature, Isomerism (Except Optical Isomerism and Tautomerism) | Chemical Kinetics, Nuclear Chemistry and Surface Chemistry, Electrochemistry, Solid State, Solution and colligative properties, General Organic Chemistry, Optical Isomerism and Tautomerism, Hydrocarbons, Halogen Derivatives |
| | Maths | Binomial Theorem, Point and Straight Line, Circle | Function & Inverse Trigonometric Functions, Limit and Continuity of Function, Differentiability and Differentiation, Application of Differentiation #1 [Tangent & Normal, Mean Value Theorems and Rate Measurement], Application of Differentiation #2 [Monotonicity, Maxima and Minima], Indefinite Integration |
| PT-4 | Physics | Kinetic Theory of Gases, Law of Thermodynamics, Heat Transfer, Transverse Waves, Longitudinal Waves, Doppler's Effect in Mechanical Waves | Reflection Plain & Spherical Surface, Refraction on Plain Surface, Prism, Refraction on Curved Surface, Lens, Optical Instrument, Light Waves, Interference of Light, Atomic Structure in Modern Physics, Matter Waves & De-Broglie, X-Ray, Photo-Electric Effect, Radioactivity, Nuclear Physics, Vernier Calipers, Screw Gauge |
| | Chemistry | GOC-1 (Brief Idea of Electronic Displacement Effects) Hydrocarbons (Preparation Methods, Physical and Chemical Properties without Optical Isomerism Application), s-block Elements, p-block elements [Part-1(Boron and Carbon Family)], Hydrogen and It's Compounds | Aromatic Chemistry, Alcohol, Ether and Phenol, Carbonyl Compounds, Carboxylic Acid and It's Derivatives, Nitrogen Compounds and Amines, Carbohydrates, Amino Acid, Protein and Polymers, Practical Organic Chemistry, Co-ordination Compound, Metallurgy, p-block elements [Part-2(Nitrogen, Oxygen, Halogen Family and Noble Gas)], Salt/Qualitative Analysis, Transitional Elements |
| | Maths | Parabola, Ellipse and Hyperbola, Properties of Triangle and Radii of Circle | Definite Integration, Area under the Curves and Differential Equation, Probability, Complex Number, Matrices and Determinants, Vector and Three Dimensional Geometry |

Note: 6 Unit Wise Test will send at Home by Post
 Syllabus of Revision Test (RT-1) = Syllabus of PT-1 & PT-2
 Syllabus of Revision Test (RT-2) = Syllabus of PT-3 & PT-4