

PHYSICS

Test No. Topic Covered

- 01 Basic Mathematics used in Physics, Vectors, Units, Dimensions and Measurement, Electrostatics
Kinematics, Current electricity
Laws of Motion and Friction, Capacitors
- 02 Work, Energy & Power, Magnetic effect of current, Magnetism and Matter*
Centre of Mass & Collisions, Electromagnetic Induction (EMI)
Rotational Motion, Alternating current (AC)
- 03 Thermal Physics (Thermal Expansion, Calorimetry, Heat Transfer, KTG & Thermodynamics), Ray optics and optical Instruments
Properties of matter and Fluid Mechanics, Gravitation, Wave optics (Nature of Light, Interference, Diffraction* & Polarisation*), Electromagnetic Waves*
Simple Harmonic Motion, Modern Physics
Waves (String & Sound waves), Practical Physics, Electronics and Communication systems*
- 04 Full Syllabus
- 05 Full Syllabus
- 06 Full Syllabus
- 07 Full Syllabus

CHEMISTRY

Test No. Topic Covered

- 01 Mole Concept, Atomic structure, Organic nomenclature, Basic principles of practical organic chemistry.
Periodic properties, Basic inorganic nomenclature, Chemical thermodynamics & Thermochemistry
GOC (complete)
- 02 Chemical Bonding, Solid state, Chemical kinetics
Isomerism, Chemical Equilibrium, State of matter (gaseous state), Redox & equivalent concept
Ionic Equilibrium, Acid Base theory, Nuclear chemistry, Reaction intermediate.
- 03 Co-ordination compound, s-block elements & hydrogen, Boron & Carbon family.
Haloalkane, Aryl Halide (Substitution & Elimination),

Electrochemistry & Solution, Ores & Metallurgy.

Alkane, Alkenes & Alkynes, Aromatic hydrocarbon, Organic compounds containing oxygen & nitrogen, Qualitative analysis.

Biomolecules (Carbohydrates, Amino Acid, Proteins), Polymer, Practical organic chemistry (Identification of elements & functional groups), Chemistry in everyday life, Environmental chemistry, Surface chemistry, d & f block element, p-block (nitrogen, oxygen, fluorine & noble gas) family.

- 04 Full Syllabus
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- 06 Full Syllabus
- 07 Full Syllabus

MATHEMATICS

Test No. Topic Covered

- 01 **Logarithms, Trigonometric Ratios and Identities, Matrices & Determinants
Quadratic Equations & *Linear Inequalities, Functions and Inverse Trigonometric Function
Trigonometric Equations, **Solution of Triangles, *Height and Distance, Differential Calculus (Limit, Continuity, Differentiability, Differentiation)
- 02 Point and Straight Line, Indefinite integration
Circle, Definite integration
Sequences and Series, Application of Derivatives (Maxima & Minima, Monotonicity, Tangent & Normal)
- 03 Permutation & Combination and Binomial Theorem, Vectors
Complex Numbers, *Principle of Mathematical Induction, Three Dimensional geometry,
Parabola, Ellipse & Hyperbola, Area under the curve and Differential Equations
*[Sets, Relation, Statistics, Mathematical Reasoning], Probability
- 04 Full Syllabus
- 05 Full Syllabus
- 06 Full Syllabus
- 07 Full Syllabus

*MARKED TOPIC / TOPICS ARE ONLY IN JEE - MAIN SYLLABUS,

**MARKED TOPIC / TOPICS ARE ONLY IN JEE - ADVANCED SYLLABUS