

Syllabus For
XI – IIT-JEE Advance Type Test

Date: 18–11–18

PHYSICS

Unit dimension, Error, Kinematics, Newton's Law, Friction, Calorimetry, Kinetic theory of Gases, First law of thermodynamics, Properties of matter, Pressure in fluid at rest.

CHEMISTRY

Some basic concept of chemistry: Chemical formula, Element, compound, mixture, homogeneous and heterogeneous mixture, Atomic & molecular masses, Mole concept, molarity, molality, normality, percentage composition, limiting reagents, stoichiometric calculations, equivalent weight, IUPAC nomenclature of organic compound, number of structural isomers of organic compound, chemical equilibrium

Structure of atom, Gaseous state,

Classification of elements and periodicity in properties, chemical bonding, redox, hydrogen.

MATHEMATICS

Quadratic equations, Complex number, Trigonometric identities and equations, Functions, Domain and range, Straight lines,

Progression (A.P., G.P. and H.P.) and series, Permutation and combination, binomial Theorem (positive index).

13/11/18

Syllabus For XII – IIT [Main Type Test]

Date: 18–11–18

PHYSICS

Complete XI.

Electric field and potential, Gauss's law, Capacitor, Current electricity, motion of charge particle in magnetic field, force on current carrying conductor, Complete Geometrical optics, Semi conductor, materials and its properties, p–n junction, diode and its biasing, Photoelectric effect, hydrogen atom, X-rays, Nucleus.

CHEMISTRY

Complete XI.

- Solid state, Solution, chemical kinetics, nuclear chemistry
- General organic chemistry, Isomerism, Haloalkanes and Haloarenes, alcohols, phenols, ether, aldehyde, ketones, biomolecules, polymers
- Group–15, 16, 17, 18, d and f-block elements, coordination compound, general principles and isolation of elements

MATHEMATICS

Complete XI.

Equivalence Relation, One-One and Onto functions, Inverse of a function, Inverse Trigonometry, Function, Differentiation, Limit continuity, Differentiability, Tangent and Normals, Monotonic functions, Maxima and minima of functions, Indefinite integration, Definite integral, Area between curves, Differential equations. Matrix, Determinant, Vector addition, Vector products, Three dimensional geometry, probability.

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18/11/18