

Syllabus For

XI – IIT-JEE Main Type Test

Date: 16–12–18

PHYSICS

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

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, Resonance, Inductive effect, hyperconjugation

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