

**Syllabus For**  
**IIT–Main Type Test**  
**For Target Batch**

**Date : 27.09.2017**

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**PHYSICS**

Units and dimensions, measurement and error, vector, motion in one dimension; two dimension and three dimension, straight line motion with constant acceleration, projectile motion, relative velocity, relative acceleration and their application, graphs, Newton's laws of motion, electric field, electric potential and Gauss's Law, ray optics.

**CHEMISTRY**

- Some basic concept of chemistry: Chemical formula, Element, compound, mixture, homogeneous and heterogeneous mixture, Atomic & molecular masses, Mole concept, Percentage composition, Empirical formula, Limiting reagent, stoichiometric calculation  
Number of structural isomers (organic molecule),
- Preparation of alkanes, alkenes, alkynes, E1, E2, E1cB, Properties: addition reaction
- Chemical kinetics:
- Solid state
- Chemical bonding, Transition metals, Co-ordination compound: Werner's theory, Isomerism, Valence Bond model.

**MATHEMATICS**

A.P., G.P., H.P. miscellaneous series, determinant and matrix, sets, relations, functions and inverse trigonometry, quadratic equations.

