

# Syllabus For PMT Combined Test (NEET type)

Date: 27-09-17

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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, Coulomb'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 reactions, aromatic, hydrocarbon, Electrophilic substitution/ortho/meta/para orientation, orientation in disubstituted benzene
- Chemical kinetics:
- Solid state
- Chemical bonding, Transition metals, Co-ordination compound: Werner's theory, Isomerism, Valence Bond model.

## BOTANY

Biological classification, plant kingdom, reproduction in flowering plants, biomolecules.

## ZOOLOGY

Respiratory system, microbes in human welfare, nitrogen fixation, living world, human health and diseases, strategy for enhancement of food production.

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19/9/17