

Syllabus For
PMT Combined Test (NEET Type)
PT – VI – (Target Batch)
Test Date: 03.02.2019

PHYSICS

Basic mathematics, Error and measurements, Vector, Kinematics of particle, Relative motion, Projectile motion, Newton's law, Friction, Circular motion, work power energy, Coulomb's law, Concept of electric field, Electric potential and potential energy, Dipole and its behaviour in electric field, Gauss's Law and its application, conductor and its behaviour, Motion of charge particle into a magnetic field, Force on current carrying conductor due to magnetic field. Biot savert's Law magnetic dipole constituted by closed current carrying conducting loop and its behaviour into the magnetic field. Plane mirror, Spherical mirror, Refraction through plane surface and spherical surface, Lens and Prism, Optical Instrument, Thin film interference, Single slit diffraction, Elasticity, Hygene's Principle, Young's double slit experiment. Fluid Statics.

CHEMISTRY

- **Some basic concept of chemistry:** Chemical formula, Element, compound, mixture, homogeneous and heterogeneous mixture, Atomic & molecular masses, Mole concept, limiting reagents, stoichiometric calculations, equivalent weight, Isomerism in organic chemistry. Some important reactions, Nomenclature of organic compound, Biomolecules, solution, polymers, Volumetric calculation, Chemical equilibrium
- Homolysis /heterolysis, electrophile/nucleophile, inductive effect, resonance, electromeric effect, alkane, alkene, alkyne, aromatic electrophilic substitution, orientation– ortho, meta, para, alkyl halide, alcohol, phenol, ether, aldehydes and ketones
- Solid state, atomic structure, Chemical kinetics, electrochemistry
- Classification of elements and periodicity in properties, chemical bonding, redox, p–block, d and f block element, coordination compound, metallurgy

BOTANY

Biological classification Plant kingdom, Plant morphology, Anatomy, Reproduction in flowering plants, Biomolecules, Cell structure and division, Transport in plant, Mineral nutrition, Photo synthesis, Respiration, Organism and environment, Physiology, Heredity and variation, Productivity, Energy flow & Decomposition.

ZOOLOGY

Basis of animal classification, Non-chordata, Chordata, Digestion and respiration, Circulation, Excretory product and its elimination, Locomotion and movement, Nervous system, Tissue and cockroach, Endocrine system, Reproduction (till covered).

12/2/19