



# **VIBRANT ACADEMY (I) Pvt. Ltd.**

## **Syllabus**

**PT-5 (Advance)**

**Date : 27-09-20**

### **Course Mega-XII Phase-II (B-1 Batch)**

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#### **Physics**

Kinematics, NLM, Friction, Work Energy Power, Circular Motion, Momentum, Elasticity, Thermal expansion, Calorimetry, Heat Transfer, Thermodynamics, Fluid Mechanics Including Surface Tension & Viscosity, Mechanical Wave, Geometrical Optics, Wave Optics, Electrostatics, Gravitation, Current Electricity.

#### **Maths**

Permutation & Combination, Straight Line, Circle, Binomial, Quadratic Equation, Sequence & Series, Trigonometry Equation, Function, Limit, Continuity, Differentiability, Method of Differentiation, Indefinite Integration, Definite Integration, AOD, Differential Equation, Vector (Till taught).

#### **Organic Chemistry**

IUPAC, Isomerism, Application of Isomerism, GOC, Alkyl Halide, RMgX, Alcohol, Ether.

#### **Physical Chemistry**

Stoichiometry (Mole + Redox), Kinetics, Radioactivity, Thermodynamics, Thermochemistry, Chemical Equilibrium, Ionic Equilibrium, Electrochemistry, Surface Chemistry.

#### **Inorganic Chemistry**

Periodic Table, Chemical Bonding, Coordination Compound, Type of Reaction, Salt Analysis (Till taught).