



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

## **Syllabus**

**PT-5 (Mains)**

**Date : 14-02-21**

**Course Googol-XIII Phase-V & VI (07 & 21 October Batch)**

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### **Physics**

Unit & Dimension, Vector, Basic Maths, Kinematics, NLM, Friction, Work Energy Power, Circular Motion, Center of Mass, Rotation, KTG & Thermodynamics, Fluid Mechanics, Geometrical Optics, Electrostatics, Gravitation, Optical Instruments, SHM, Current Electricity, Capacitor, Magnetic Effect of Current, EMI, Mechanical Wave.

### **Maths**

Syllabus Covered Till Last Date.

### **Organic Chemistry**

Isomerism, Biomolecules, G.O.C., Tautomerism, Polymers, Amino acids, Hydrocarbons (Application of Isomers), Reactions of Aromatic compounds, Carbene and Nitrene, BOC, Alkyl Halide (Till taught), Grignard Reagent & Application, Alcohol Ether Phenol.

### **Physical Chemistry**

Stoichiometry, Chemical Kinetics, Radioactivity, Chemical Equilibrium, Thermodynamics, Thermochemistry, Ionic equilibrium, Electrochemistry (Till taught).

### **Inorganic Chemistry**

Periodic Table, Chemical Bonding, s,d,f-Block Elements, Hydrogen, p-Block Elements, Coordination Compounds, Metallurgy (Till taught).