

Ramakrishna Mission vidyamandira
Belur Math: Howarah
Syllabus for B.Sc. (Hons) Industrial Chemistry Admission Entrance Test
2022

- 1. Physical Chemistry: Some Basic Concepts of Chemistry; Structure of Atom; Classification of Elements and Periodicity in Properties; Chemical Bonding and Molecular Structure; States of Matter: Gases and Liquids; Thermodynamics; Equilibrium; Solid State; Solutions; Electrochemistry; Chemical Kinetics; Surface Chemistry.**

- 2. Inorganic Chemistry: Redox Reactions; Hydrogen; *s*-Block Elements (Alkali and Alkaline earth metals); Some *p*-Block Elements-(Gr.13,Gr.14, Gr.15,Gr.16,Gr.17,Gr.18); *d* and *f* Block Elements; General Principles and Processes of Isolation of Elements; Coordination Compounds.**

- 3. Organic Chemistry: Some Basic Principles and Techniques; Hydrocarbons; Environmental Chemistry, Haloalkanes and Haloarenes; Alcohols, Phenols and Ethers; Aldehydes, Ketones and Carboxylic Acids; Organic Compounds containing Nitrogen; Biomolecules; Polymer; Chemistry in Every Day Life**