

SCIENCE (Subject Code - 086)
Syllabus for Purpose of Examination 2021-22
CLASS – X
CHEMISTRY
TERM – I

Chapters	Topics	Marks
Chapter -1 Chemical reactions and equations	Chemical reactions: Chemical equation, Balanced chemical equation, implications of a balanced chemical equation, types of chemical reactions: combination, decomposition, displacement, double displacement, precipitation, neutralization, oxidation and reduction.	16
Chapter – 2 Acids, Bases and Salts	Acids, bases and salts: Their definitions in terms of furnishing of H^+ and OH^- ions, General properties, examples and uses, concept of pH scale (Definition relating to logarithm not required), importance of pH in everyday life; preparation and uses of Sodium Hydroxide, Bleaching powder, Baking soda, Washing soda and Plaster of Paris	
Chapter – 3 Metals and non – metals	Metals and non-metals: Properties of metals and non-metals; Reactivity series; Formation and properties of ionic compounds.	

Practicals

- # Finding the pH of the following samples by using pH paper/universal indicator: (i) Dilute Hydrochloric Acid (ii) Dilute NaOH solution (iii) Dilute Ethanoic Acid solution (iv) Lemon juice (v) Water (vi) Dilute Hydrogen Carbonate solution
- # Studying the properties of acids and bases (HCl & NaOH) on the basis of their reaction with a) Litmus solution (Blue/Red) b) Zinc metal c) Solid sodium carbonate

TERM – II

Chapters	Topics	Marks
Chapter – 4 Carbon and its compounds	Carbon compounds: Covalent bonding in carbon compounds. Versatile nature of carbon. Homologous series.	10
Chapter – 5 Periodic classification of elements	Periodic classification of elements: Need for classification, early attempts at classification of elements (Dobereiner's Triads, Newland's Law of Octaves, Mendeleev's Periodic Table), Modern periodic table, gradation in properties, valency, atomic number, metallic and non-metallic properties.	

Practical

- # No practicals for term II