

Class-XII
CHEMISTRY

(A) Following Topics are Deleted from the syllabus for March 2020-21 Examination

S No	Unit	Portion to be Reduced
1	Solutions	Abnormal molecular mass, Van't Hoff factor
2	Electrochemistry	Lead accumulator, fuel cells, corrosion, law of electrolysis (elementary idea), dry cell- electrolytic cells and Galvanic cells,
3	Chemical Kinetics	Concept of collision theory (elementary idea, no mathematical treatment), activation energy, Arrhenius equation.
4	Surface Chemistry	emulsion - types of emulsions, catalysis: homogenous and heterogeneous, activity and selectivity of solid catalysts; enzyme catalysis,
5	General Principles and Processes of Isolation of Elements	Entire unit
6	p-Block Elements	Sulphuric Acid: industrial process of manufacture,
7	d and f Block Elements	Chemical reactivity of lanthanoids, Actinoids -Electronic configuration, oxidation states and comparison with lanthanoids. Preparation and properties of KMnO_4 and $\text{K}_2\text{Cr}_2\text{O}_7$
8	Coordination Compounds	Structure and stereoisomerism, importance of coordination compounds (in qualitative analysis, extraction of metals and biological system).
9	Haloalkanes and Haloarenes	Uses and environmental effects of -dichloromethane, trichloromethane, tetrachloromethane, iodoform, freons, DDT.
10	Alcohols, Phenols and Ethers	uses with special reference to methanol and ethanol.

11	Aldehydes, Ketones and Carboxylic Acid	---
12	Amines	Diazonium salts: Preparation, chemical reactions and importance in synthetic organic chemistry.
13	Biomolecules	Oligosaccharides (sucrose, lactose, maltose), polysaccharides (starch, cellulose, glycogen), importance of carbohydrates. Vitamins- classification and functions. Enzymes. Hormones - Elementary idea excluding structure.
14	Polymers	entire chapter
15	Chemistry in Everyday life	entire chapter

(B) PRACTICAL : Following Topics are Deleted from the syllabus for March 2020-21 Examination

A. Surface Chemistry

- a. Preparation of one lyophilic and one lyophobic sol
Lyophilic sol - starch, egg albumin and gum
Lyophobic sol - aluminium hydroxide, ferric hydroxide, arsenous sulphide.
- b. Dialysis of sol-prepared in (a)above.
- c. Study of the role of emulsifying agents in stabilizing the emulsion of different oils.

B. Chemical Kinetics

- a. Effect of concentration and temperature on the rate of reaction between Sodium Thiosulphate and Hydrochloric acid.
- b. Study of reaction rates of any one of the following:
 - i) Reaction of Iodide ion with Hydrogen Peroxide at room temperature using different concentration of Iodide ions.
 - ii) Reaction between Potassium Iodate, (KIO₃) and Sodium Sulphite: (Na₂SO₃) using starch solution as indicator (clock reaction).

C. Thermo chemistry Any one of the following experiments

- i) Enthalpy of dissolution of Copper Sulphate or Potassium Nitrate.

- ii) Enthalpy of neutralization of strong acid (HCl) and strong base (NaOH).
- iii) Determination of enthalpy change during interaction (Hydrogen bond formation) between Acetone and Chloroform.
- D. Electrochemistry Variation of cell potential in $Zn/Zn^{2+} || Cu^{2+}/Cu$ with change in concentration of electrolytes ($CuSO_4$ or $ZnSO_4$) at room temperature.
- H. Preparation of Organic Compounds Preparation of any one of the following compounds
 - i) Acetanilide
 - ii) Di-benzal Acetone
 - iii) p-Nitroacetanilide

Aniline yellow or 2 - Naphthol Anilinedye