

**Class – XII**  
**DELETED SYLLABUS**  
**(For the Session of 2020-21 Only)**  
**CHEMISTRY**  
**(THEORY)**

**Unit I: Solid State**

Electrical and magnetic properties.

**Unit II: Solutions**

Abnormal molecular mass.

**Unit III: Electrochemistry**

Laws of electrolysis (elementary idea), dry cell – electrolytic cells and Galvanic cells; lead accumulator, fuel cells; corrosion.

**Unit IV: Chemical Kinetics**

Concept of collision theory (elementary idea, no mathematical treatment)

**Unit V: Surface Chemistry**

Catalysis : homogenous and heterogeneous, activity and selectivity: enzyme catalysis; emulsion – types of emulsions.

**Unit VI: General Principles and Processes of Isolation of Elements**

Principles and methods of extraction - concentration, oxidation, reduction electrolytic method and refining; occurrence and principles of extraction of aluminium, copper, zinc and iron.

**Unit VII: p-Block Elements**

**Group 15 elements:** Oxides of nitrogen (structure only); Phosphorous-allotropic forms; compounds .of phosphorous: preparation and properties of phosphine, halides ( $\text{PCl}_3$ ,  $\text{PCl}_5$ ) and oxoacids (elementary idea only)

**Group 16 elements:** sulphuric acid: industrial process of manufacture, properties and uses, oxoacids of sulphur (structures only).

**Unit VIII: d and f Block Elements**

Preparation and properties of  $\text{K}_2\text{Cr}_2\text{O}_7$  and  $\text{KMnO}_4$ .

**Lanthanoids** - Chemical reactivity

**Actinoids** - Electronic configuration, oxidation states.

**Unit IX: Coordination Compounds**

Importance of coordination compounds (in qualitative analysis, extraction of metals and biological systems).

**Unit X: Haloalkanes and Haloarenes.**

Uses and environmental effects of - dichloromethane, trichloromethane, tetrachloromethane, iodoform, freons, DDT.

## **Unit XI: Alcohols, Phenols and Ethers**

**Alcohols:** Uses of methanol and ethanol.

## **Unit XIII: Organic compounds containing Nitrogen**

**Diazonium salts:** Preparation, chemical reactions and importance in synthetic organic chemistry.

## **Unit XIV: Biomolecules**

**Carbohydrates** - Oligosaccharides (sucrose, lactose, maltose), polysaccharides (starch, cellulose, glycogen); importance.

**Proteins** - Enzymes.

**Vitamins** - Classification and functions.

## **Unit XV: Polymers**

Classification - natural and synthetic, methods of polymerization (addition and condensation), copolymerization. Some important polymers: natural and synthetic like polythene, nylon, polyesters, bakelite, rubber.

## **Unit XVI: Chemistry in Everyday life:**

1. **Chemicals in medicines** - analgesics, tranquilizers, antiseptics, disinfectants, antimicrobials, antifertility drugs, antibiotics, antacids, antihistamines.
2. **Chemicals in food** - preservatives, artificial sweetening agents.
3. **Cleansing agents** - soaps and detergents, cleansing action.





