

Note for XI Practical:

Due to Covid-19, 60% of total Chemistry practicals should be conducted by teachers during academic year 2020-21.

XII Chemistry (55)**Deleted and Non- Evaluative portion for Year 2020-21.**

Sr.No.	Chapter No. and Name	Deleted and Non evaluative portion
1.	1.Solid State	1.2.1 Crystalline solid, 1.2.2.Amorphous solid, 1.7.3 Packing efficiency of metal crystal in fcc lattice, Table 1.3 Edge length and particle parameters in cubic system, Table 1.4 Point no.3 fcc/hcp only, 1.9 Electrical properties of solids, 1.10 Magnetic properties of solid
2	2.Solutions	Demonstration and Exceptions to Henry's Law, 2.11.1 Van't Hoff factor (i), 2.11.2 Modification of expressions of colligative property, 2.11.3 Van't Hoff factor and degree of dissociation, Problem 2.10,2.11,2.12,2.14
3	3.Ionic Equilibria	3.1 Introduction, 3.6.2 Acidity, basicity and neutrality of aqueous solution, 3.8.3 Properties of Buffer 3.10.1 Common ion effect and solubility
4	4.Chemical Thermodynamics	4.1 Introduction, 4.2.6 Thermodynamic Equilibrium, key points for spontaneous process, 4.11.3 Entropy and spontaneity, 4.11.4 Second law of thermodynamics, 4.11.5 Gibbs energy, 4.11.6 Gibbs energy and spontaneity, 4.11.7 Spontaneity and Gibbs function and equilibrium constant, Problem 4.16,4.17,4.18, Problem 4.19 and 4.20
5	5.Electrochemistry	5.1 Introduction, 5.2.2 Ionic conductivity, 5.4.1 Electrochemistry Measurement of conductivity of solution, Significance of molar electrodes, 5.10.1 Dry cell, 5.10.2 Lead accumulator, 5.11 Fuel cells
6	6.Chemical Kinetics	6.1 Introduction, 6.6 collision theory 6.12 and 6.13, Problem 6.14 Reactions, 6.7 Temperature dependence of reaction rate, Problem
7	7.Elements of Groups 16,17 and 18	Introduction, Table 7.2 Atomic and physical properties of group 16 elements, Table 7.3,7.4 Atomic and physical properties of group 17 and 18 elements, Table 7.5,7.6 Properties of hydrides of Group 16 and 17 elements, 7.9 Oxygen and compounds of oxygen, Fig.7.1 Flow diagram for manufacture of sulphuric acid, 7.11.2 Hydrogen chloride, 7.13 Compounds of Xenon (Excluding Table no.7.14)
8	8.Transition and inner transition elements	8.1.1 General Introduction , Table 8.5 Atomic Properties of First Transition series, Table 8.6 Ionisation enthalpy of first transition series Remember, 8.3 Compounds of Mn and Cr, 8.6.1 Metallurgy 8.6.2 Extraction of iron from hematite ore using blast furnace, Table 8.12 I.E of Lanthanoids, Problem, Table 8.13 Effective Magnetic moments of Lanthanoids
9.	9.Co-ordination Compounds	9.9.6 CFT, 9.9.7 Factors affecting Crystal Field splitting parameters, 9.9.8 Colour of the octahedral complexes, 9.9.9 Tetrahedral complexes
10	10.Halogen Derivatives	10.3.5 Sandmeyer's reaction, 10.5.5 Representation of configuration of molecule, 10.6.1 Laboratory test of haloalkane, 10.7 Uses and Environmental effect of some polyhalogen compound
11	11.Alcohols , Phenols and Ethers	Preparation of alcohols a) From alkyl halide b) By acid catalyzed hydration of alkenes, a)Laboratory test of alcohols and phenol i) Litmus test , ii) Reaction with base

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		ii)Reaction with Phosphorus Halide, iii) Dehydration of alcohols to alkenes, a)Laboratory test of ether
12	12.Aldehydes, Ketones and carboxylic acids	12.1 Introduction, a)By oxidation of alcohol b) from hydrocarbons, ii) Preparation of aromatic ketones from acyl chloride, b) Laboratory test for ketonic group, 12.9.2 Laboratory tests for carboxyl group.
13	13.Amines	13.6.1 Laboratory test for amines, Reaction with fluroboric acid b) Reactions involving retention of diazonium group.
14	14. Biomolecules	14.1 Introduction , 14.2.10 Polysaccharides(Statch,cellulose and glycogen), b) Secondary structure of protein, c) Tertiary structure of protein, d) Quaternary structure of protein, Fig.14.26 Formation of nucleoside, Fig.14.27 Structure of nucleotide, Fig. 14.28 Formation of dinucleotide, 14.4.3 DNA double helix
15	15. Introduction to Polymer chemistry	Fig.15.2 Classification of polymers, 15.3.6 Phenol-formaldehyde and related polymers, Fig.15.3 Preparation of Bakelite, Fig. 15.4 Formation of crosslinked malemine formaldehyde resin, 15.3.9 Viscose rayon, Fig 15.7 Formation of viscose rayon, 15.4 Molecular mass and degree of polymerization of polymers
16	16.Green Chemistry and Nanochemistry	Fig.16.1 Macro-materials to atoms, Fig.16.2 Scale of Nanomaterials, 16.6.4 Thermal properties,16.6.5 Mechanical Property,16.6.6 Electrical conductivity,16.7 Synthesis of Nanomaterial, 16.7.4 Photographs of Instruments

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