

Academic Planner of Class XII (2019 -20) Chemistry

Date/ Day	Content	Modes of Assessment	CW and HW	Lab activity
April(1--15)	Organic Chemistry			
11 days	Ch- Haloalkenes and haloarenes		1 Assignment based on SN1 and SN2 reaction.	
	Classification, preparation, properties, nomenclature.	Class test from preparation , properties.	2 NCERT que. Based on conceptual part.	
(16--30)	Haloalkenes and Haloarenes		Class Work	Qualitative Analysis
11 days	Some important chemical compounds.	Class test from SN1 and SN2 reactions	1 Ex. Question Discussion	
	Alcohol, phenols and ethers		2 Intext problems and example	Acidic and Basic radical
	Classification, nomenclature, Preparation, Properties, mechanism	2 Class Test from alcohols and phenols.	Home Work	
		class test from all name reactions	Assignment based on conversion and reasoning based questions	
May(1--15)	Ethers-- Preparation and properties(physical and chemical)		CW	
11 days	Aldehydes and Ketones		1 Practice of simple conversion reactions	Qualitative Analysis
	Nomenclature, preparation , physical and chemical peoperties, General mechanisms and Name reactions. Some important chemical compounds.	Test from conversion reactions.	HW	Acidic and Basic radical
	Carboxylic acids-- Nomenclature, preparation, properties(physical and chemical) applications.		Assignment based on conversions and IUPAC nomenclature.	
	Chemistry in everyday Life--- Introduction and all types of important chemicals and their compositions that we use in our daily life.	Test from conversions and reasoning based questions	Intext Problems and Solved examples discussion.	
July (1--15)	Compounds containing nitrogen-- Nomenclature, classification, preparation, properties(physical and chemical), Diazonium salt and their reactions.	Test from chemistry in everyday life in the form of MCQs and one word answers.		
12 days	Physical Chemistry-- Solution	Test from reasoning based ques. from amines.	HW	
	Recapitulation of concentration of solution, Concentration of solution, Henry's Law and its applications	Test from Ideal and non ideal solutions.	Assignment based on numericals and concept based problems.	Qualitative Analysis
July(16-31)	Raoult's law, Ideal and Non ideal solutions, Colligative properties, numericals based on colligative properties, Van't Hoff factor		CW	Acidic and Basic radical
14 days	Ch--3 Electrochemistry	1) MCQ from colligative properties.	Practice of numericals and Nernst equation.	
	Galvanic cell, Nernst equation, Conductivity and Molar conductivity		HW	
	Graphical representation of molar conductivity with concentration for electrolytes, Kohlrausch law and its applications.	2) Test from cell and Nernst equation.	Assignment based on cell and Nernst equations.	
	Polymers- Introduction, types of ploymers, classification, their monomer units and applications of polymers in our daily life.			
August (1-15)	Electrochemistry--Electrolysis, Batteries, Corrosion.			
10 days	Ch-4 Chemical Kinetics			
	Rate of reactions, Rate constant, Order and molecularity of reaction, Integrated rate equations.		HW	Titration of KMnO4 vs Oxalic acid.
	Half Life of zero and first order reaction , Arrhenius equation, Activation energy and Collision theory.	Test from integrated rate equations for first and zero order reaction.	Assignment based on numericals from kinetics and electrochemistry	
August (16-31)	Ch- 5 Surface Chemistry			
13 days	Adsorption, absorption, Catalyst, Catalysis, Enzyme catalysis, Colloids(preparation and classification), Purification of colloids, Emulsions	QAXP(Wipro technique)	Assignment based on questions from surface chemistry(reasoning based)	Titration of KMnO4 vs Oxalic acid.

	Ch- 6 Principles and process of extraction of elements			
		Group Discussion	CW	
	Extraction of elements, Oxidation and Reduction reactions, electrolytic method and refining of metals, principles of extraction of aluminium, iron, copper and zinc.	MCQ from Extraction of elements	NCERT ques.from ellingham diagram and refining of metals.	Redox titration
September(1-15)	Revision-- General trends in properties of 15 group elements.			
	p-block elements			
10 days	16-gp. Elements--Oxygen, ozone, oxides, allotropic forms of sulphur, sulphur dioxide, sulphur trioxide,sulphuric acid.	QAXP(Wipro technique)	Assignment based on conceptual questions.	Redox titration
(16-30)				
13 days	Revision for Half yearly examination	Class test from structures and reactions of compounds of 16 group elements.	Assignment based on trends in properties of elements.	
October(1--15)	17gp.elements--General trends, HCl, Chlorine, Oxo acids of halogens, interhalogen compounds.		HW	
6 days	18gp.elements--General introduction, Compounds of xenon, structures of xenon compounds.	MCQ from Noble gases.	Assignments based on conceptual questions from sample papers and NCERT	Tests for carbohydrates, proteins and fats.
October (16-31)	Ch-8 d and f block elements.			Functional group tests.
11 days	General trends in properties, preparation and properties of $KMnO_4$ and $K_2Cr_2O_7$	Group Discussion from d and f- block elements.	Discussion of NCERT examples and Intext Que.	
November(1-15)	Ch-9 Coordination compounds			
11 days	Werner's theory, Nomenclature, VBT, Crystal Field theory, Stability of complexes, Importance of coordination compounds.	MCQ from coordination compounds	CW	Functional group tests.
	Biomolecules		Practice of structures of glucose, fructose (open chain and cyclic)	Chromatography
	Carbohydrates--classification, proteins, vitamins, enzymes, nucleic acids, DNA and RNA	MCQ from Biomolecules	Assignments based on repeated questions from sample papers	Chemical Kinetics
	Hormones and antioxidants			
	Examination Schedule			
	Unit Test I-- Haloalkanes and Haloarenes, Alcohols and phenols			
	Half Yearly Examination--1)Ethers, 2)Aldehydes, ketones and carboxylic acids, 3) Nitrogen containing compounds, 4) Solutions, 5) Electrochemistry,6) Kinetics and Surface chemistry.			
	PeBoard Examination I --Organic Chemistry, Physical Chemistry, p-block and d and f block elements.			
	Preboard Examination II-- Complete Syllabus			