

O.P.JINDAL SCHOOL,SAVITRI NAGAR
ANNUAL SYLLABUS (2023-24)

CLASS-XI

SUBJECT-CHEMISTRY

S N	MONTH	I.D.	NO.OF PERIODS	CHAPTER	ENRICHMENT ACTIVITY	VALUES IMPARTED/LEARNING OUTCOMES	EXTRA CONTENT	
1	JUNE	11	14	1.Some Basic Concept of Chemistry	Discussion and demonstration method, Question-answer method Activity – To verify the law of conservation of mass	Students will learn about the basic concept of chemistry, Different term of concentration of solution and basic terms used in the measurement.	Relationship between : empirical formula and molecular formula . Molarity and molality	
2	JULY	23	18	2.Structure of Atom	Discussion and demonstration method, Question-answer method Activity - To analyse the acid and basic radical in the given salt. (NH ₄ Cl ,NH ₄ Br)	Students will learn about different theory and atomic models of atom, and their significance to understand the microstructure of atom.	V.B. T.	
			12	3.Classification of elements and Periodicity in Properties	Discussion and demonstration method, Question- answer method	Student will understand the features of Modern Periodic Table and the periodic properties of different elements.	10 MCQ based on IIT/NEET	
3	AUGUST	23	15	4.Chemical Bonding and Molecular Structure	Discussion and demonstration method, Question- answer method Activity- To analyze the acid and basic radical in the given salt: Zinc sulphate.	Students will learn about the different theory of chemical bonding and molecular structure of different compounds with their properties.	10 MCQ based on IIT/NEET	
			15	8.Redox Reactions	Discussion and demonstration method, Question-answer method	Students will learn about the concept of redox reaction and their types. They will also generalize the properties of hydrogen.	10 MCQ based on IIT/NEET	
4	SEPTEMBER	12	HALF YEARLY EXAMINATION					
5	OCTOBER	20	20	7.Equilibrium	Discussion and demonstration method, Question-answer method Activity-To analyses the acid and basic radical in the given salt: MgSO ₄	They will enhance the knowledge of equilibrium state and factors, concept of acid and base, electrolytes and their behavior.	10 MCQ based on IIT/NEET	
6	NOVEMBER	13	15	12.Organic Chemistry: Some Basic Principles and Techniques	Activity-To analyze the acid and basic radical in the given salt. Pb(NO ₃) ₂	Students will learn about the classification, IUPAC name of carbon compounds and also the qualitative and quantitative analysis of elements.	10 MCQ based on IIT/NEET	

7	DECEMBER	19	20	13.Hydrocarbon	Activity-To analyze the acid and basic radical in the given salt. $Al_2(SO_4)_3$	Students will learn about the Structures, Physical and chemical properties with reactions of alkanes, alkenes, alkynes and aromatic compounds. chemical reaction of preparation, isomerism.	10 MCQ based on IIT/NEET
8	JANUARY	22	20	6.Chemical Thermodynamics	Discussion and demonstration method, Question-answer method Activity- Find the molarity and strength of HCl solution by M/20 solution of $NaHCO_3$	Student will learn about the different laws of thermodynamics, and the criteria of spontaneity by the entropy and free energy.	
9	FEBRUARY	15		ANNUAL EXAMINATION			
10	MARCH			ANNUAL EXAMINATION			

SYLLABUS FOR EXAMINATION

SN	EXAMINATION	MONTH	MAX. MARKS	MAX. TIME	SYLLABUS FOR EXAMINATION
1	TEST-1	JULY	20	1 Hr	Chapter-1 and 2
2	Half Yearly Examination	SEPTEMBER	70	3 Hrs	Chapter-1,2,3and 4
3	TEST-2	NOVEMBER	20	1 Hr	Chapter-7and 8
4	Annual Examination	FEBRUARY	70	3 Hrs	Chapter-1,2,3,4,6,7,8,12,13