BAGARIA BAL VIDYA NIKITAN

LAXMANGARH-SIKAR

SYLLABUS & LESSON PLANNER-2024-25

Class:- XII
Subject:- CHEMISTRY
Teacher Name:- SANJAY KUMAR KUMAWAT

SYLLABUS

Ch.No	Name of Books	Name of Chapter	working day	Period	Topic	Month	Week
UNIT-I	N.C.E.R.T	CHAP-1 [SOLUTIONS]	23	30	TYPES OF SOLUTIONS	APRIL	1
					EXP.OF CON. OF SOLUTIONS OF SOLIDS IN LIQ.		
					SOLUBILITY OF GASES IN LIQUIDS		2
					SOLID SOLUTIONS,RAOULT'S LAW		
					COLLIGATIVE PRO - LOWERING OF V.P & ELEVATION OF B.P		3
					COLLIGATIVE PRO - DEPRESSION OF F.P & OSMOTIC PRES.		
					DET. OF MOLECULAR MASSES USING COLLIGATIVE PRO		
					ABNORMAL MOLECULAR MASS		4
					VAN'T HOFF FACTOR		
UNIT-2	N.C.E.R.T	CHAP-2 ELECTROCHEMISTRY	13	17	REDOX REACTIONS, EMF OF A CELL	MAY	1
					STANDARD ELECTRODE POTENTIAL		
					NERNST EQUATION AND ITS APPLICATION TO CHEMICAL CELL		
					REL. BETWEEN GIBBS ENERGY CHANGE AND EMF OF A CELL		
					CONDUCTANCE IN ELECTROLYTIC SOLUTIONS		
					SPECIFIC AND MOLAR CONDUCTIVITY		2
					VARIATIONS OF CONDUCTIVITY WITH CONCENTRATION		
					KOHLRAUSCH'S LAW, ELECTROLYSIS AND ELECTROLYSIS LAW		
					DRY CELL- ELECTROLYTIC CELLS AND GALVANIC CELLS		
					LEAD ACCUMULATOR, FUEL CELL, CORROSION		
UNIT-3	N.C.E.R.T	CHAP-3 CHEMICAL KINETICS	11	14	RATE OF REACTION		1
					FACTOR AFFECTING RATE OF REACTION	JUNE	
					ORDER AND MOLECULARITY OF A REACTION		
					RATE LAW AND SPECIFIC RATE CONSTANT		
					INTEGRATED RATE EQUATIONS AND HALF LIFE		2

	N.C.E.R.T				CONCEPT OF COLLISION THEORY		
					ACTIVATION ENERGY, SITUATION ARRHENIUS EQUATION		
UNIT-4		CHEP-4 d AND f BLOCK ELEMENTS	26	34	GENERAL INTRODUCTION, ELECTRONIC CONFIGURATION	JULY	1
					OCCURRENCE AND CHARACTERISTICS OF TRANSITION METALS		2
					GENERAL TRENDS IN PRO.OF THE FIRST ROW TRAN. METALS		
					METALLIC CHARACTER, IONIZATION ENTHALPY, OXIDATION STATE		
					IONIC RADII, COLOUR, CATALYTIC PROPERTY		3
					MAGNETIC PROPERTIES, INTERSTITIAL COMPOUNDS, ALLOYS FOR.		4
					PREPARATION AND PROPERTIES OF K2Cr2O7 AND KMnO4		
					LANTHANOIDES-ELE.CON.,O.S., CHEMICAL REACTIVITY		
					CONTRACTION AND ITS CONSEQUENCES		
					ACTINOIDS-ELE CON.,O.S.,AND COMPARISON WITH LAT.		
UNIT-5		CHEP-5 COORDINATIO COMPOUNDS	24	32	COO.COMPOUNDS-INTRO., LIGANDS, COORD NO. COLOUR	AUGUST	1
					MAGNETIC PRO.AND SHAPE,NOMEN.OF MONONUCLEAR COM.		
					BONDING, WERNER'S THEORY,VBT,CFT STR.AND STEREOISO.		
					IMPORTANCE OF COORDINATION COMPOUNDS		
UNIT-6	N.C.E.R.T	CHEP-6 HALOALKANES AND HALOARENES			HALOALKANES: NOME., NATURE OF C-X BOND,		
					PHY. AND CHEM PRO., OPTICAL ROTATION MECH.OF SUB.REAC		2
					HALOARENES: NATURE OF C-X BOND, SUBSTITUTION REAC.		
					USES AND ENVIRONMENTAL EFFECTS		
					DDT, FREONS		
UNIT-7		CHEP-7 ALCOHOLS,PHENOLS ETHERS			ALCOHOLS: NOMENCLATURE, METHODS OF PREPARATION		3
					PHYSICAL AND CHEMICAL PROPERTIES		
					IDENTIFICATION OF ALCOHOLS, MECHANISM OF DEHYDRATION		
					USES OF METHANOL AND ETHANOL		4
					PHENOLS: NOMENCLATURE, METHODS OF PREPARATION		
					PHYSICAL AND CHEMICAL PROPERTIES		
					ACIDIC NATURE OF PHENOL		
					ELECTROPHILIC SUBSTITUTION REACTIONS,USES		
					ETHERS: NOMENCLATURE, METHODS OF PREPARATION		
					PHYSICAL AND CHEMICAL PROPERTIES,USES		
		CHEP-8 ALDEHYDES			ALDEHYDES: NOME., NATURE OF CARBONYL GROUP		
					METHODS OF PREPARATION	EPTEMBE	1

UNIT-8		KETONES AND CARBOXYLIC ACID	23	30	PHYSICAL AND CHEMICAL PROPERTIES		
					MECHANISM OF NUCLEOPHILIC ADDITION+ALPHA H & USES		
					CARBOXYLIC ACID: NOMENCLATURE, ACIDIC NATURE		
	N.C.E.R.T				METHODS OF PREPARATION		
					PHYSICAL AND CHEMICAL PROPERTIES AND USES		
UNIT-9		CHEP-9 AMINES			AMINES: NOMENCLATURE, CLASSIFICATION,STRUCTURES		2
					METHODS OF PREPARATION		
					PHYSICAL AND CHEMICAL PROPERTIES AND USES		
					IDENTIFICATION OF AMINES		
					DIAZONIUM SALTS: PREPARATIONS,		
					CHEMICAL REACTIONS		
					IMPORTANCE IN SYNTHETIC ORGANIC CHEMISTRY		
UNIT-10	N.C.E.R.T	CHEP-10 BIOMOLECULES			CARBOHYDRATES: CLASSIFICATIONS,		
					MONOSACCHARIDES, D-L CONFIGURATION		3
					OLIGOSACCHARIDES, POLYSACCHARIDES		
					IMPORTANCE OF CARBOHYDRATES		
					PROTEINS: ELEM. IDEA OF AMINO ACID, PEPTIDE BONDS		4
	N.C.E.R.T				STRUCTURE OF PROTEINS		
					DENATURATION OF PROTEINS, ENZYMES, HORMONES		
					VITAMINS-CLASSIFICATION AND FUNCTIONS		
					NUCLEIC ACID: DNA AND RNA		