

Maharana Pratap P.G. College Jungle Dhusan, Gorakhpur

Class : B.Sc. II nd Year			LESSION PLAN : 2021-22		Subject : Chemistry
DATE	LECTURE	TEACHER'S NAME	PAPER	CHAPTER	TOPIC
16/07/2021	1	S. K. JAISWAL	II	Transition Elements	Introduction, Position in Periodic Table
17/07/2021	2	S. K. JAISWAL	II	Transition Elements	Electronic configuration
19/07/2021	1	DR. S.K.VERNWAL	III	Carbohydrates	Classification
20/07/2021	2	DR. S.K.VERNWAL	III	Carbohydrates	Ring structure of Glucose
22/07/2021	1	DR. R. SAHAY	I	Thermodynamic-I	Introduction: definition of terms system, surroundings, open, isolated system Extensive & Intensive properties
23/07/2021		DR. R. SAHAY	CT		
24/07/2021	3	S. K. JAISWAL	II	Transition Elements	Atomic & Ionic Radii
26/07/2021	4	SANJAY JAISWAL	II	Transition Elements	Variable Oxidation State
27/07/2021	3	DR. S.K.VERNWAL	III	Carbohydrates	Ring structure of Fructose
28/07/2021	4	DR. S.K.VERNWAL	III	Carbohydrates	Properties of Glucose and Fructose
29/07/2021	2	DR. R. SAHAY	I	Thermodynamic-I	State & Path function & their differentials, Reversible & Irreversible Process
30/07/2021		DR. R. SAHAY	ME		
31/07/2021	5	SANJAY JAISWAL	II	Transition Elements	Ability to form complexes
02/08/2021	6	SANJAY JAISWAL	II	Transition Elements	Formation of coloured ions
03/08/2021	5	DR. S.K.VERNWAL	III	Carbohydrates	Interconversions in the Carbohydrate series
04/08/2021	6	DR. S.K.VERNWAL	III	Carbohydrates	Ruff-degradation
05/08/2021	3	DR. R. SAHAY	I	Thermodynamic-I	Concept of heat & work, First law of Thermodynamics
06/08/2021		DR. R. SAHAY	CT		
07/08/2021	7	SANJAY JAISWAL	II	Transition Elements	Magnetic(μ_s & μ_{eff}) behaviour
09/08/2021	8	SANJAY JAISWAL	II	Transition Elements	Catalytic behaviour
10/08/2021	7	DR. S.K.VERNWAL	III	Aromatic Hydrocarbons	General method of preparation
11/08/2021	8	DR. S.K.VERNWAL	III	Aromatic Hydrocarbons	Molecular orbital structure of benzene
12/08/2021	4	DR. R. SAHAY	I	Thermodynamic-I	Concept of Internal Energy Enthalpy, Heat capacities at constant volume Pressure & their relations
14/08/2021		DR. R. SAHAY	CT		
16/08/2021	9	SANJAY JAISWAL	II	Transition Elements	General comparative treatment of 4d & 5d elements with their 3d element
17/08/2021	10	SANJAY JAISWAL	II	Acid Base Concept	Introduction, Lewis concept
18/08/2021	9	DR. S.K.VERNWAL	III	Aromatic Hydrocarbons	Aromaticity, Huckel's Rule
20/08/2021	10	DR. S.K.VERNWAL	III	Mechanism of Aromatic Electrophilic Substitutions	Halogenation & Nitration
21/08/2021	5	DR. R. SAHAY	I	Thermodynamic-I	Calculation of W, q, dU & dH for the expansion of Ideal gas under Isothermal

23/08/2021		DR. R. SAHAY	ME		
24/08/2021	11	SANJAY JAISWAL	II	Acid Base Concept	Classification of Hard & Soft Acid & Bases
25/08/2021	12	SANJAY JAISWAL	II	Acid Base Concept	Classification of Hard & Soft Acid & Bases
26/08/2021	11	DR. S.K.VERNWAL	III	Mechanism of Aromatic Electrophilic Substitutions	Sulphonation, Friedel-Craft's alkylation
27/08/2021	12	DR. S.K.VERNWAL	III	Mechanism of Aromatic Electrophilic Substitutions	Friedel-Craft's acylation
31/08/2021	6	DR. R. SAHAY	I	Thermodynamic-I	Adiabatic condition for a reversible process
01/09/2021		DR. R. SAHAY	CT		
02/08/2021	13	SANJAY JAISWAL	II	Acid Base Concept	Application of HSAB Principle
03/09/2021	14	SANJAY JAISWAL	II	Acid Base Concept	Application of HSAB Principle
04/09/2021	13	DR. S.K.VERNWAL	III	Mechanism of Aromatic Electrophilic Substitutions	Orientation in aromatic substitution
06/09/2021	14	DR. S.K.VERNWAL	III	Mechanism of Aromatic Electrophilic Substitutions	Ortho-para ratio
07/09/2021	7	DR. R. SAHAY	I	Thermodynamic-I	Calculation from the thermodynamic data, Kirchhoff's Equation
08/09/2021		DR. R. SAHAY	CT		
09/09/2021	15	SANJAY JAISWAL	II	Coordination Compounds	Introduction, Definition & Classification of Ligands
10/09/2021	16	SANJAY JAISWAL	II	Coordination Compounds	Werner's Postulates
11/09/2021	15	DR. S.K.VERNWAL	III	Aromatic Halogen Compounds	Types of aromatic halogen compounds, Chlorobenzene
13/09/2021	16	DR. S.K.VERNWAL	III	Aromatic Halogen Compounds	Benzyl chloride
14/09/2021	8	DR. R. SAHAY	I	Thermodynamic-II	Second Law of thermodynamic, concept of Entropy, Entropy as a state function
15/09/2021		DR. R. SAHAY	CT		
16/09/2021	17	SANJAY JAISWAL	II	Coordination Compounds	Sidgwick's effective atomic number concept
18/09/2021	18	SANJAY JAISWAL	II	Coordination Compounds	Valence bond theory
20/09/2021	17	DR. S.K.VERNWAL	III	Aromatic Nitro Compounds	Nitrobenzene, Reduction of nitrobenzene
21/09/2021	18	DR. S.K.VERNWAL	III	Aromatic Nitro Compounds	m-Dinitro benzene, TNT
22/09/2021	9	DR. R. SAHAY	I	Thermodynamic-II	Entropy as a function of U & T, P & T, Entropy change in physical process
23/09/2021		DR. R. SAHAY	ME		
25/09/2021	19	SANJAY JAISWAL	II	Coordination Compounds	Valence bond theory
27/09/2021	20	SANJAY JAISWAL	II	Coordination Compounds	Chelate effect
29/09/2021	19	DR. S.K.VERNWAL	III	Aromatic Amino Compounds & Diazonium Salts	Aniline
30/10/2021	20	DR. S.K.VERNWAL	III	Aromatic Amino Compounds & Diazonium	Benzyl amine

				Salts	
01/10/2021	21	SANJAY JAISWAL	II	Coordination Compounds	Nomenclature of only mono and dinuclear complexes
04/09/202		SANJAY JAISWAL	CT		
05/10/2021	21	DR. S.K.VERNWAL	III	Aromatic Amino Compounds & Diazonium Salts	Basicity of aniline & Toluidines
07/10/2021	22	DR. S.K.VERNWAL	III	Aromatic Amino Compounds & Diazonium Salts	Benzene Diazonium chloride
08/10/2021	10	DR. R. SAHAY	I	Thermodynamic-II	Gibbs Helmholtz function: Criteria for thermodynamics equilibrium & change in entropy
09/10/2021	11	DR. R. SAHAY	I	Chemical Equilibrium	Equilibrium constant and free energy
11/10/2021	22	SANJAY JAISWAL	II	Coordination Compounds	Stereochemistry of coordination number 2,4 & 6
18/10/2021		SANJAY JAISWAL	C.T.		
20/10/2021	23	DR. S.K.VERNWAL	III	Aromatic Amino Compounds & Diazonium Salts	Synthetic uses of benzenediazonium chloride
21/10/2021	24	DR. S.K.VERNWAL	III	Aromatic Sulphonic Acids	Benzene sulphonic acid, Sulphanilic acid
22/10/2021	12	DR. R. SAHAY	I	Chemical Equilibrium	Thermodynamic derivation of Law of Mass action, Le-Chatelier's principle
23/10/2021	13	DR. R. SAHAY	I	Electrochemistry-I	Electrical transport conduction in metals & in electrolyte solutions, specific conductance
25/10/2021	23	SANJAY JAISWAL	II	Coordination Compounds	$[\text{Ag}(\text{NH}_3)_2]^+$, $[\text{Ag}(\text{CN})_2]^-$, $[\text{Ni}(\text{CN})_4]^{2-}$
26/10/2021		SANJAY JAISWAL	M.E		
27/10/2021	25	DR. S.K.VERNWAL	III	Aromatic Sulphonic Acids	Saccharine & Chloramine-T
28/10/2021	26	DR. S.K.VERNWAL	III	Phenols	Acid character, Reactions of phenol
29/10/2021	14	DR. R. SAHAY	I	Electrochemistry-I	Equivalent conductance, Measurement of equivalent conductance, variation of equivalent & specific conductance with dilution
30/10/2021	15	DR. R. SAHAY	I	Electrochemistry-I	Migration of ions & Kohlrausch law, Arrhenius theory of electrolyte dissociation & its limitations
08/11/2021	24	SANJAY JAISWAL	II	Coordination Compounds	$[\text{Cu}(\text{NH}_3)_4]^{2+}$, $[\text{Zn}(\text{NH}_3)_4]^{2+}$, $[\text{MnO}_4]^-$
09/11/2021		SANJAY JAISWAL	CT		
11/11/2021	27	DR. S.K.VERNWAL	III	Phenols	Picric acid
12/11/2021	16	DR. R. SAHAY	I	Electrochemistry-I	Weak and strong electrolytes, Ostwald's dilution law, its uses & limitations
12/11/2021	17	DR. R. SAHAY	I	Electrochemistry-I	Debye-Huckel-Onsager's equation for strong electrolytes
16/11/2021	25	SANJAY JAISWAL	II	Coordination Compounds	$[\text{Fe}(\text{CN})_6]^{3-}$, $[\text{Fe}(\text{CN})_6]^{4-}$, $[\text{FeF}_6]^{3-}$
17/11/2021	28	DR. S.K.VERNWAL	III	Aromatic Alcohols Aldehydes & Ketones	Benzaldehyde & Salicylaldehyde Acetophenone & Benzophenone
18/11/2021		DR. S.K.VERNWAL	CT		
20/11/2021	29	DR. S.K.VERNWAL	III	Aromatic Acids	Preparation & Properties of Cinnamic acid

22/11/2021	30	DR. S.K.VERNWAL	III	Aromatic Acids	Phthalic acid & Salicylic acid
23/11/2021	18	DR. R. SAHAY	I	Electrochemistry-I	Activity and activity coefficient, Transport number definition & determination by Hittorf method & moving boundary method
25/11/2021	19	DR. R. SAHAY	I	Electrochemistry-I	Applications of conductivity measurements: determination of degree of dissociation, determination of K_a of acids
26/11/2021	31	DR. S.K.VERNWAL	III	Aromatic Acids	Acid structure of benzoic acid and substituted benzoic acids
27/11/2021		DR. S.K.VERNWAL	ME		
29/11/2021	20	DR. R. SAHAY	I	Electrochemistry-I	Determination of solubility product of a sparingly soluble salts, conductometric titration
30/11/2021	21	DR. R. SAHAY	I	Electrochemistry-II	Types of reversible electrodes-gas-metal ion, metal-metal ion, metal insoluble salt-anion & redox electrodes,
01/12/2021	26	SANJAY JAISWAL	II	Coordination Compounds	$[\text{Fe}(\text{H}_2\text{O})_6]^{3+}$, $[\text{Fe}(\text{C}_2\text{O}_4)_3]^{3-}$, $[\text{Co}(\text{NH}_3)_6]^{3+}$
02/12/2021	27	SANJAY JAISWAL	II	Coordination Compounds	$[\text{Co}(\text{en})_3]^{3+}$, $[\text{Ni}(\text{NH}_3)_6]^{2+}$, $[\text{PbCl}_6]^{2-}$
03/12/2021	32	DR. S.K.VERNWAL	III	Polynuclear Hydrocarbons	Non condensed system: Biphenyl
07/12/2021		DR. S.K.VERNWAL	CT		
08/12/2021	22	DR. R. SAHAY	I	Electrochemistry-II	Electrode reaction s, Nernst equation, derivation of cell E.M.F & single electrode potential
09/12/2021	23	DR. R. SAHAY	I	Electrochemistry-II	Standard Hydrogen electrode-reference electrodes-standard electrode potential
11/12/2021	28	SANJAY JAISWAL	II	Coordination Compounds	Isomerism
13/12/2021	29	SANJAY JAISWAL	II	Coordination Compounds	Various types of Isomerism
14/12/2021	33	DR. S.K.VERNWAL	III	Polynuclear Hydrocarbons	Condensed system: Naphthalene
15/12/2021		DR. S.K.VERNWAL	CT		
16/12/2021	24	DR. R. SAHAY	I	Electrochemistry-II	Sign conventions, electrochemical series & its significance, Electrolytic & Galvanic cells
17/12/2021	25	DR. R. SAHAY	I	Electrochemistry-II	Reversible & Irreversible cells, Conventional representation of electrochemical cells
18/12/2021	30	SANJAY JAISWAL	II	Coordination Compounds	Stereoisomerism in CN-4 & CN-6
20/12/2021	31	SANJAY JAISWAL	II	Non aqueous Solvents	General introduction & Classification of solvent
21/12/2021	34	DR. S.K.VERNWAL	III	Polynuclear Hydrocarbons	Naphthols&Naphthyl amines
22/12/2021		DR. S.K.VERNWAL	C.T		
23/12/2021	26	DR. R. SAHAY	I	Electrochemistry-II	E.M.F. of a cell & its measurements, Computation of cell E.M.F., Calculation of thermodynamic quantities of cell reactions (ΔG , ΔH & K)
24/12/2021	27	DR. R. SAHAY	I	Electrochemistry-II	Concentration cell with and without transport, Liquid junction potentials, Application of concentration cells
27/12/2021	32	SANJAY JAISWAL	II	Non aqueous Solvents	Characteristics proportion of solvents
28/12/2021	33	SANJAY JAISWAL	II	Non aqueous Solvents	Chemical reaction occurring in liquid NH_3
29/12/2021	35	DR. S.K.VERNWAL	III	Heterocyclic Compounds	Preparation & properties of Furan
30/12/2021		DR. S.K.VERNWAL	M.E		

31/12/2021	28	DR. R. SAHAY	I	Electrochemistry-II	Valency of ions, solubility product & activity coefficient, Potentiometric titrations, Definition of pH & pKa
01/01/2022	29	DR. R. SAHAY	I	Electrochemistry-II	Determination of pH using Hydrogen, Quinhydrone & glass electrode by Potentiometric method
03/12/2021	34	SANJAY JAISWAL	II	Non aqueous Solvents	Chemical reaction occurring in liquid NH ₃
04/01/2022	35	SANJAY JAISWAL	II	Non aqueous Solvents	Chemical reaction occurring in liquid SO ₂
05/01/2022	36	DR. S.K.VERNWAL	III	Heterocyclic Compounds	Pyrrrole&Thiophene
06/01/2022		DR. S.K.VERNWAL	CT		
07/01/2022	30	DR. R. SAHAY	I	Electrochemistry-II	Buffers-mechanism of buffer action, Henderson-Hassel equation, hydrolysis of salts, Electrochemical corrosion & its prevention
08/01/2022	31	DR. R. SAHAY	I	Phase Equilibrium	Phase, component & degree of freedom, derivation of Gibbs Phase rule
10/01/2022	36	SANJAY JAISWAL	II	Non aqueous Solvents	Chemical reaction occurring in liquid SO ₂
11/01/2022	37	SANJAY JAISWAL	II	Non aqueous Solvents	Chemical reaction occurring in liquid SO ₂
12/01/2022	37	DR. S.K.VERNWAL	III	Heterocyclic Compounds	Pyridine
13/01/2022		DR. S.K.VERNWAL	CT		
17/01/2022	32	DR. R. SAHAY	I	Phase Equilibrium	Phase equilibria of one component system- water, sulphur & Helium
18/01/2022	33	DR. R. SAHAY	I	Phase Equilibrium	First & Second order phase transitions, Phase equilibria of two component systems, solid-liquid equilibria
19/01/2022	38	SANJAY JAISWAL	II	Concept of Electrode Potentials	EMF diagram
20/01/2022	39	SANJAY JAISWAL	II	Concept of Electrode Potentials	EMF diagram & their utility
21/01/2022	38	DR. S.K.VERNWAL	III	Numerical Problems	Determination of structure based on chemical reactions
22/01/2022		DR. S.K.VERNWAL	ME		
24/01/2022	34	DR. R. SAHAY	I	Phase Equilibrium	Simple Eutectic-Pb-Ag system, Desilverisation of Pb, System involving compound formation with a congruent melting point (Mg-Zn)
27/01/2022	35	DR. R. SAHAY	I	Phase Equilibrium	Incongruent melting point (CuSO ₄ .H ₂ O), Nernst distribution law & its thermodynamic derivation
28/01/2022	40	SANJAY JAISWAL	II	Concept of Electrode Potentials	Numerical problems
29/01/2022	41	SANJAY JAISWAL	II	Concept of Electrode Potentials	Numerical problems
30/01/2022	39	DR. S.K.VERNWAL	III	Numerical Problems	Determination of structure based on chemical reactions