

Maharana Pratap P.G. College Jungle Dhusan, Gorakhpur

Class : B.Sc. II nd Year LESSION PLAN : 2020-21 Subject : Chemistry					
DATE	LECTURE	TEACHER'S NAME	PAPER	CHAPTER	TOPIC
16.07.2020	1	SANJAY JAISWAL	II	Transition Elements	Introduction, Position in Periodic Table
17.07.2020	2	SANJAY JAISWAL	II	Transition Elements	Electronic configuration
18.07.2020	1	DR. S.K.VERNWAL	III	Carbohydrates	Classification
20.07.2020	2	DR. S.K.VERNWAL	III	Carbohydrates	Ring structure of Glucose
21.07.2020	1	DR. R. SAHAY	I	Thermodynamic-I	Introduction: definition of terms system, surroundings, open, isolated system Extensive & Intensive properties
22.07.2020		DR. R. SAHAY	CT		
23.07.2020	3	SANJAY JAISWAL	II	Transition Elements	Atomic & Ionic Radii
24.07.2020	4	SANJAY JAISWAL	II	Transition Elements	Variable Oxidation State
27.07.2020	3	DR. S.K.VERNWAL	III	Carbohydrates	Ring structure of Fructose
28.07.2020	4	DR. S.K.VERNWAL	III	Carbohydrates	Properties of Glucose and Fructose
29.07.2020	2	DR. R. SAHAY	I	Thermodynamic-I	State & Path function & their differentials, Reversible & Irreversible Process
30.07.2020		DR. R. SAHAY	CT		
31.07.2020	5	SANJAY JAISWAL	II	Transition Elements	Ability to form complexes
04.08.2020	6	SANJAY JAISWAL	II	Transition Elements	Formation of coloured ions
05.08.2020	5	DR. S.K.VERNWAL	III	Carbohydrates	Interconversions in the Carbohydrate series
06.08.2020	6	DR. S.K.VERNWAL	III	Carbohydrates	Ruff-degradation
07.08.2020	3	DR. R. SAHAY	I	Thermodynamic-I	Concept of heat & work, First law of Thermodynamics
08.08.2020		DR. R. SAHAY	CT		
10.08.2020	7	SANJAY JAISWAL	II	Transition Elements	Magnetic(μ_s & μ_{eff}) behaviour
11.08.2020	8	SANJAY JAISWAL	II	Transition Elements	Catalytic behaviour
13.08.2020	7	DR. S.K.VERNWAL	III	Aromatic Hydrocarbons	General method of preparation
14.08.2020	8	DR. S.K.VERNWAL	III	Aromatic Hydrocarbons	Molecular orbital structure of benzene
17.08.2020	4	DR. R. SAHAY	I	Thermodynamic-I	Concept of Internal Energy Enthalpy, Heat capacities at constant volume Pressure & their relations
18.08.2020		DR. R. SAHAY	CT		
19.08.2020	9	SANJAY JAISWAL	II	Transition Elements	General comparative treatment of 4d & 5d elements with their 3d element
20.08.2020	10	SANJAY JAISWAL	II	Acid Base Concept	Introduction, Lewis concept
21.08.2020	9	DR. S.K.VERNWAL	III	Aromatic Hydrocarbons	Aromaticity, Huckel's Rule
22.08.2020	10	DR. S.K.VERNWAL	III	Mechanism of Aromatic Electrophilic Substitutions	Halogenation & Nitration

24.08.2020	5	DR. R. SAHAY	I	Thermodynamic-I	Calculation of W, q, dU&dH for the expansion of Ideal gas under Isothermal
25.08.2020		DR. R. SAHAY	ME		
26.08.2020	11	SANJAY JAISWAL	II	Acid Base Concept	Classification of Hard & Soft Acid & Bases
27.08.2020	12	SANJAY JAISWAL	II	Acid Base Concept	Classification of Hard & Soft Acid & Bases
28.08.2020	11	DR. S.K.VERNWAL	III	Mechanism of Aromatic Electrophilic Substitutions	Sulphonation, Friedel-Craft's alkylation
01.09.2020	12	DR. S.K.VERNWAL	III	Mechanism of Aromatic Electrophilic Substitutions	Friedel-Craft's acylation
02.09.2020	6	DR. R. SAHAY	I	Thermodynamic-I	Adiabatic condition for a reversible process
03.09.2020		DR. R. SAHAY	CT		
04.09.2020	13	SANJAY JAISWAL	II	Acid Base Concept	Application of HSAB Principle
05.09.2020	14	SANJAY JAISWAL	II	Acid Base Concept	Application of HSAB Principle
07.09.2020	13	DR. S.K.VERNWAL	III	Mechanism of Aromatic Electrophilic Substitutions	Orientation in aromatic substitution
08.09.2020	14	DR. S.K.VERNWAL	III	Mechanism of Aromatic Electrophilic Substitutions	Ortho-para ratio
09.09.2020	7	DR. R. SAHAY	I	Thermodynamic-I	Calculation from the thermodynamic data, Kirchhoff's Equation
10.09.2020		DR. R. SAHAY	CT		
11.09.2020	15	SANJAY JAISWAL	II	Coordination Compounds	Introduction, Definition & Classification of Ligands
12.09.2020	16	SANJAY JAISWAL	II	Coordination Compounds	Werner's Postulates
14.09.2020	15	DR. S.K.VERNWAL	III	Aromatic Halogen Compounds	Types of aromatic halogen compounds, Chlorobenzene
15.09.2020	16	DR. S.K.VERNWAL	III	Aromatic Halogen Compounds	Benzyl chloride
16.09.2020	8	DR. R. SAHAY	I	Thermodynamic-II	Second Law of thermodynamic , concept of Entropy, Entropy as a state function
18.09.2020		DR. R. SAHAY	CT		
19.09.2020	17	SANJAY JAISWAL	II	Coordination Compounds	Sidgwick's effective atomic number concept
21.09.2020	18	SANJAY JAISWAL	II	Coordination Compounds	Valence bond theory
22.09.2020	17	DR. S.K.VERNWAL	III	Aromatic Nitro Compounds	Nitrobenzene, Reduction of nitrobenzene
23.09.2020	18	DR. S.K.VERNWAL	III	Aromatic Nitro Compounds	m-Dinitro benzene, TNT
24.09.2020	9	DR. R. SAHAY	I	Thermodynamic-II	Entropy as a function of U& T, P & T , Entropy change in physical process
25.09.2020		DR. R. SAHAY	CT		
26.09.2020	19	SANJAY JAISWAL	II	Coordination Compounds	Valence bond theory
28.09.2020	20	SANJAY JAISWAL	II	Coordination Compounds	Chelate effect
29.09.2020	19	DR. S.K.VERNWAL	III	Aromatic Amino Compounds & Diazonium Salts	Aniline

30.09.2020	20	DR. S.K.VERNWAL	III	Aromatic Amino Compounds & Diazonium Salts	Benzyl amine
01.10.2020	21	SANJAY JAISWAL	II	Coordination Compounds	Nomenclature of only mono and dinuclear complexes
03.10.2020		SANJAY JAISWAL	CT		
05.10.2020	21	DR. S.K.VERNWAL	III	Aromatic Amino Compounds & Diazonium Salts	Basicity of aniline & Toluidines
06.10.2020	22	DR. S.K.VERNWAL	III	Aromatic Amino Compounds & Diazonium Salts	Benzene Diazonium chloride
07.10.2020	10	DR. R. SAHAY	I	Thermodynamic-II	Gibbs Helmholtz function: Criteria for thermodynamics equilibrium & change in entropy
09.10.2020	11	DR. R. SAHAY	I	Chemical Equilibrium	Equilibrium constant and free energy
10.10.2020	22	SANJAY JAISWAL	II	Coordination Compounds	Stereochemistry of coordination number 2,4 & 6
12.10.2020		SANJAY JAISWAL	ME		
13.10.2020	23	DR. S.K.VERNWAL	III	Aromatic Amino Compounds & Diazonium Salts	Synthetic uses of benzenediazonium chloride
14.10.2020	24	DR. S.K.VERNWAL	III	Aromatic Sulphonic Acids	Benzene sulphonic acid, Sulphanilic acid
15.10.2020	12	DR. R. SAHAY	I	Chemical Equilibrium	Thermodynamic derivation of Law of Mass action, Le-Chatelier's principle
16.10.2020	13	DR. R. SAHAY	I	Electrochemistry-I	Electrical transport conduction in metals & in electrolyte solutions, specific conductance
17.10.2020	23	SANJAY JAISWAL	II	Coordination Compounds	$[\text{Ag}(\text{NH}_3)_2]^+$, $[\text{Ag}(\text{CN})_2]^-$, $[\text{Ni}(\text{CN})_4]^{n-}$
19.10.2020		SANJAY JAISWAL	CT		
20.10.2020	25	DR. S.K.VERNWAL	III	Aromatic Sulphonic Acids	Saccharine & Chloramine-T
21.10.2020	26	DR. S.K.VERNWAL	III	Phenols	Acid character, Reactions of phenol
22.10.2020	14	DR. R. SAHAY	I	Electrochemistry-I	Equivalent conductance, Measurement of equivalent conductance, variation of equivalent & specific conductance with dilution
23.10.2020	15	DR. R. SAHAY	I	Electrochemistry-I	Migration of ions & Kohlrausch law, Arrhenius theory of electrolyte dissociation & its limitations
29.10.2020	24	SANJAY JAISWAL	II	Coordination Compounds	$[\text{Cu}(\text{NH}_3)_4]^{2+}$, $[\text{Zn}(\text{NH}_3)_4]^{2+}$, $[\text{MnO}_4]^-$
31.10.2020		SANJAY JAISWAL	CT		
02.11.2020	27	DR. S.K.VERNWAL	III	Phenols	Picric acid
03.11.2020	16	DR. R. SAHAY	I	Electrochemistry-I	Weak and strong electrolytes, Ostwald's dilution law, its uses & limitations
04.11.2020	17	DR. R. SAHAY	I	Electrochemistry-I	Debye-Huckel-Onsager's equation for strong electrolytes
05.11.2020	25	SANJAY JAISWAL	II	Coordination Compounds	$[\text{Fe}(\text{CN})_6]^{3-}$, $[\text{Fe}(\text{CN})_6]^{4-}$, $[\text{FeF}_6]^{3-}$
06.11.2020	28	DR. S.K.VERNWAL	III	Aromatic Alcohols Aldehydes & Ketones	Benzaldehyde & Salicylaldehyde Acetophenone & Benzophenone
07.11.2020		DR. S.K.VERNWAL	CT		
09.11.2020	29	DR. S.K.VERNWAL	III	Aromatic Acids	Preparation & Properties of Cinnamic acid
10.11.2020	30	DR. S.K.VERNWAL	III	Aromatic Acids	Phthalic acid & Salicylic acid

17.11.2020	18	DR. R. SAHAY	I	Electrochemistry-I	Activity and activity coefficient, Transport number definition & determination by Hittorf method & moving boundary method
18.11.2020	19	DR. R. SAHAY	I	Electrochemistry-I	Applications of conductivity measurements: determination of degree of dissociation, determination of K_a of acids
19.11.2020	31	DR. S.K.VERNWAL	III	Aromatic Acids	Acid structure of benzoic acid and substituted benzoic acids
21.11.2020		DR. S.K.VERNWAL	ME		
23.11.2020	20	DR. R. SAHAY	I	Electrochemistry-I	Determination of solubility product of a sparingly soluble salts, conductometric titration
24.11.2020	21	DR. R. SAHAY	I	Electrochemistry-II	Types of reversible electrodes-gas-metal ion, metal-metal ion, metal insoluble salt-anion & redox electrodes,
26.11.2020	26	SANJAY JAISWAL	II	Coordination Compounds	$[\text{Fe}(\text{H}_2\text{O})_6]^{3+}$, $[\text{Fe}(\text{C}_2\text{O}_4)_3]^{3-}$, $[\text{Co}(\text{NH}_3)_6]^{3+}$
27.11.2020	27	SANJAY JAISWAL	II	Coordination Compounds	$[\text{Co}(\text{en})_3]^{3+}$, $[\text{Ni}(\text{NH}_3)_6]^{2+}$, $[\text{PbCl}_6]^{2-}$
28.11.2020	32	DR. S.K.VERNWAL	III	Polynuclear Hydrocarbons	Non condensed system: Biphenyl
01.12.2020		DR. S.K.VERNWAL	CT		
02.12.2020	22	DR. R. SAHAY	I	Electrochemistry-II	Electrode reaction s, Nernst equation, derivation of cell E.M.F & single electrode potential
03.12.2020	23	DR. R. SAHAY	I	Electrochemistry-II	Standard Hydrogen electrode-reference electrodes-standard electrode potential
07.12.2020	28	SANJAY JAISWAL	II	Coordination Compounds	Isomerism
08.12.2020	29	SANJAY JAISWAL	II	Coordination Compounds	Various types of Isomerism
09.12.2020	33	DR. S.K.VERNWAL	III	Polynuclear Hydrocarbons	Condensed system: Naphthalene
11.12.2020		DR. S.K.VERNWAL	CT		
12.12.2020	24	DR. R. SAHAY	I	Electrochemistry-II	Sign conventions, electrochemical series & its significance, Electrolytic & Galvanic cells
14.12.2020	25	DR. R. SAHAY	I	Electrochemistry-II	Reversible & Irreversible cells, Conventional representation of electrochemical cells
15.12.2020	30	SANJAY JAISWAL	II	Coordination Compounds	Stereoisomerism in CN-4 & CN-6
16.12.2020	31	SANJAY JAISWAL	II	Non aqueous Solvents	General introduction & Classification of solvent
17.12.2020	34	DR. S.K.VERNWAL	III	Polynuclear Hydrocarbons	Naphthols&Naphthyl amines
18.12.2020		DR. S.K.VERNWAL	ME		
21.12.2020	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)
22.12.2020	27	DR. R. SAHAY	I	Electrochemistry-II	Concentration cell with and without transport, Liquid junction potentials, Application of concentration cells
23.12.2020	32	SANJAY JAISWAL	II	Non aqueous Solvents	Characteristics proportion of solvents
24.12.2020	33	SANJAY JAISWAL	II	Non aqueous Solvents	Chemical reaction occurring in liquid NH_3
26.12.2020	35	DR. S.K.VERNWAL	III	Heterocyclic Compounds	Preparation & properties of Furan
28.12.2020		DR. S.K.VERNWAL	CT		

29.12.2020	28	DR. R. SAHAY	I	Electrochemistry-II	Valency of ions, solubility product & activity coefficient, Potentiometric titrations, Definition of pH & pKa
30.12.2020	29	DR. R. SAHAY	I	Electrochemistry-II	Determination of pH using Hydrogen, Quinhydrone & glass electrode by Potentiometric method
31.12.2020	34	SANJAY JAISWAL	II	Non aqueous Solvents	Chemical reaction occurring in liquid NH ₃
01.01.2021	35	SANJAY JAISWAL	II	Non aqueous Solvents	Chemical reaction occurring in liquid SO ₂
02.01.2021	36	DR. S.K.VERNWAL	III	Heterocyclic Compounds	Pyrrrole&Thiophene
04.01.2021		DR. S.K.VERNWAL	CT		
06.01.2021	30	DR. R. SAHAY	I	Electrochemistry-II	Buffers-mechanism of buffer action, Henderson-Hazel equation, hydrolysis of salts, Electrochemical corrosion & its prevention
07.01.2021	31	DR. R. SAHAY	I	Phase Equilibrium	Phase, component & degree of freedom, derivation of Gibbs Phase rule
08.01.2021	36	SANJAY JAISWAL	II	Non aqueous Solvents	Chemical reaction occurring in liquid SO ₂
09.01.2021	37	SANJAY JAISWAL	II	Non aqueous Solvents	Chemical reaction occurring in liquid SO ₂
11.01.2021	37	DR. S.K.VERNWAL	III	Heterocyclic Compounds	Pyridine
12.01.2021		DR. S.K.VERNWAL	CT		
13.01.2021	32	DR. R. SAHAY	I	Phase Equilibrium	Phase equilibria of one component system- water, sulphur&Helium
16.01.2021	33	DR. R. SAHAY	I	Phase Equilibrium	First & Second order phase transitions, Phase equilibria of two component systems-solid-liquid equilibria
18.01.2021	38	SANJAY JAISWAL	II	Concept of Electrode Potentials	EMF diagram
19.01.2021	39	SANJAY JAISWAL	II	Concept of Electrode Potentials	EMF diagram & their utility
20.01.2021	38	DR. S.K.VERNWAL	III	Numerical Problems	Determination of structure based on chemical reactions
21.01.2021		DR. S.K.VERNWAL	ME		
22.01.2021	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)
23.01.2021	35	DR. R. SAHAY	I	Phase Equilibrium	Incongruent melting point (CuSO ₄ .H ₂ O), Nernst distribution law & its thermodynamic derivation
25.01.2021	40	SANJAY JAISWAL	II	Concept of Electrode Potentials	Numerical problems
27.01.2021	41	SANJAY JAISWAL	II	Concept of Electrode Potentials	Numerical problems
28.01.2021	39	DR. S.K.VERNWAL	III	Numerical Problems	Determination of structure based on chemical reactions
29.01.2021		DR. S.K.VERNWAL	ME		
30.01.2021	36	DR. R. SAHAY	I	Phase Equilibrium	Numerical Problem