MAHARANA PRATAP P.G. COLLEGE JUNGLE DHUSAN, GORAKHPUR

Class: B.Sc.	III ^{rd Sem}	LESSION	PLAN: 2022-23	Subject : Chemistry
DATE	LEC TUR E	TEACHE R'S NAME	CHAPTER	TOPIC
08/07/2022	1	SKV	Coordination Chemistry	Coordinate bonding, double complex salts, complexes
09/07/2022	2	SKV	Coordination Chemistry	Coordinate bonding, double complex salts, Werner's theory of coordination complexes
11/07/2022	1	RS	Kinetic theories of gases	Postulates of kinetic theory of gases, deviation from ideal behavior, van der Waals equation of state
12/07/2022	2	RS.	Kinetic theories of gases	PV isotherms of real gases, continuity of states, the isotherms of Van der Waals equation
13/07/2022	1	AT	Theories of Coordinatio n Chemistry	Thermodynamic and kinetic aspects of metal complexes: A brief outline of thermodynamic stability of metal complexes and factors affecting the stability
14/07/2022		AT	C.T	
15/07/2022	3	SKV	Coordination Chemistry	classification of ligands, ambidentate ligands, chelates, coordination numbers, IUPAC nomenclature of coordination complexes (up to two metal centers)
16/07/2022	04	SKV	Coordination Chemistry	classification of ligands, ambidentate ligands, chelates, coordination numbers, IUPAC nomenclature of coordination complexes (up to two metal centers)
18/07/2022	3	RS	Kinetic theories of gases	relationship between critical constants and Van der Waals constants
19/07/2022	4	RS.	Kinetic theories of gases	the law of corresponding states, reduced equation of state
20/07/2022	2	AT	Theories of Coordinatio Chemistry	stability constants of complexes and their determination, substitution reactions of square planar complexes
21/07/2022		A.T.	C.T	

22/07/2022	5	SKV	Coordination Chemistry	classification of ligands, ambidentate ligands, chelates, coordination numbers, IUPAC nomenclature of coordination complexes (up to two metal centers)
23/07/2022	6	SKV	Coordination Chemistry	classification of ligands, ambidentate ligands, chelates, coordination numbers, IUPAC nomenclature of coordination complexes (up to two metal centers)
25/07/2022	5	RS.	Liquid State	Intermolecular forces, structure of liquids (a qualitative description)
26/07/2022	6	RS.	Liquid State	Structural differences between solids, liquids and gases Liquid crystals: Difference between liquid crystal, solid and liquid.
27/07/2022	3	AT.	Inorganic Spectrosco py and Mag netism	selection rules for d-d transitions, spectroscopic ground states, spectrochemical series
28/07/2022		A.T.	ME	
29/07/2022	7	SKV	Coordination Chemistry	Isomerism in coordination compounds, constitutional and stereo isomerism
30/07/2022	8	SKV	Coordinatio Chemistry	1
01/08/2022	7	RS		
			Liquid State	Classification structure of nematic and cholesterol phases. Thermography and seven segmentcell.
03/08/2022	4	AT.	Inorganic	
			Spectrosco	

			py and Mag netism	Orgel-energy level diagram for d1 and d9 states, discussion of the electronic spectrum of [Ti(H2O)6]3+ complex ion.
04/08/2022	5	A.T.	Inorganic Spectrosco py and Mag netism	Orgel-energy level diagram for d1 and d9 states, discussion of the electronic spectrum of [Ti(H2O)6]3+ complex ion.
05/08/2022		SKV	CT	
06/08/2022	09	SKV	Coordination Chemistry	geometrical and optical isomerism in square planar and octahedral complexes
08/08/2022	8	RS.	Phase Equilibrium	Statement and meaning of the terms-phase component and degree of freedom
10/08/2022	6	A.T.	Inorganic Spectrosco py and Mag netism	Magnetic properties of transition metal complexes, types of magnetic behaviour
11/08/2022	7	A.T.	Inorganic Spectrosco py and Mag netism	methods of determining magnetic susceptibility, spin-only formula
13/08/2022	10	SKV	Coordination Chemistry	geometrical and optical isomerism in square planar and octahedral complexes
16/08/2022		RS.	СТ	derivation of Gibbs phase rule
17/08/2022	8	A.T.	Inorganic Spectrosco py and Mag netism	L-S coupling, correlation of μ s and μ eff values, orbital contribution to magnetic moments
19/08/2022	11	SKV	Coordination Chemistry	geometrical and optical isomerism in square planar and octahedral complexes

20/08/2022	12	SKV	Theories of Coordination Chemistry	Metal- ligand bonding in transition metal complexes, limitations of valance bond theory
22/08/2022	9	RS	Phase Equilibrium	phase equilibria of one component system water, S, He and Diamond, graphite
23/08/2022	10	RS	Phase Equilibrium	phase equilibria of one component system water, S, He and Diamond, graphite
24/08/2022		A.T.	ME	
25/08/2022	9	A.T.	Inorganic Spectrosco py and Mag netism	General description of magnetic properties
26/08/2022	13	SKV	Theories of Coordination Chemistry	an elementary idea of crystal field theory
27/08/2022	14	SKV	Theories of Coordination Chemistry	an elementary idea of crystal field theory
01/09/2022	10	A.T.	Inorganic Spectrosco py and Mag netism	General description of magnetic properties
02/09/2022	15	SKV	Theories of Coordination Chemistry	an elementary idea of crystal field theory
03/09/2022		SKV	CT	
05/09/2022	11	RS	Phase Equilibrium	phase equilibria of one component system water, S, He and Diamond, graphite
06/09/2022	12	RS	Phase Equilibrium	phase equilibria of one component system water, S, He and Diamond, graphite
7/09/2022	11	.AT	Inorganic Spectrosco py and Mag netism	General description of magnetic properties
10/09/2022	16	S.K.V	Theories of Coordination Chemistry	r crystal field splitting in octahedral tetrahedral and square planner complexes

12/09/2022	13	RS	Phase Equilibrium	phase equilibria of one component system water, S, He and Diamond, graphite
13/09/2022		R.S	СТ	
15/09/2022	12	AT	Inorganic Spectrosco py and Mag netism	General description of magnetic properties
16/09/2022	17	S.K.V	Theories of Coordination Chemistry	crystal field splitting in octahedral tetrahedral and square planner complexes
19/09/2022	14	RS	Phase Equilibrium	Phase equilibria of two component system Solid - liquid equilibria , simple eutectic. Pb-Ag systems.
20/09/2022	15	RS	Phase Equilibrium	Phase equilibria of two component systems Solid - liquid equilibria , simple eutectic. Pb-Ag systems.
21/09/2022	13	AT	Inorganic Spectrosco py and Mag netism	General description of magnetic properties
22/09/2022		AT	CT	
23/09/2022	18	SKV	Theories of Coordination Chemistry	crystal field splitting in tetrahedral and square planner complexes
24/09/2022	19	S.K.V	Theories of Coordination Chemistry	crystal field splitting in tetrahedral and square planner complexes
26/09/2022	16	RS	Phase Equilibrium	Phase equilibria of two component systems Solid - liquid equilibria , simple eutectic. Pb-Ag systems.
27/09/2022	17	RS	Phase Equilibrium	Phase equilibria of two component systems Solid - liquid equilibria , simple eutectic. Pb-Ag systems.
28/09/2022	14	AT	Inorganic Spectrosco py and Mag netism	General description of magnetic properties
29/09/2022		AT	ME	
30/09/2022	20	SKV	Theories of Coordination Chemistry	crystal field splitting in tetrahedral and square planner complexes

01/10/2022	21	SKV	Theories of Coordination Chemistry	factors affecting the crystal-field parameters
07/10/2022	22	SKV	Theories of Coordination Chemistry	factors affecting the crystal-field parameters
08/10/2022	23	S.K.V	Theories of Coordination Chemistry	factors affecting the crystal-field parameters
10/10/2022	18	RS	Phase Equilibrium	Phase equilibria of two component systems Solid - liquid equilibria , simple eutectic. Pb-Ag systems.
11/10/2022		RS	СТ	
12/10/2022	15	AT	Inorganic Spectrosco py and Mag netism	Paramagnetism, diamagnetism,
13/10/2022	16	AT	Inorganic Spectrosco py and Mag netism	Paramagnetism, diamagnetism,
14/10/2022	24	SKV	Theories of Coordination Chemistry	factors affecting the crystal-field parameters
15/10/2022	25	S.K.V	Theories of Coordination Chemistry	factors affecting the crystal-field parameters
17/10/2022	1	PM	Chemical Kinetics	Rate of a reaction, molecularity and order of reaction, concentration dependence of rates, mathematical characteristic of simple chemical reactions zero order
18/10/2022		PM	ME	•
19/10/2022	17	AT	Inorganic Spectrosco py and Mag netism	ferromagnetism and magnetic suspectibility
20/10/2022	18	AT	Inorganic Spectrosco py and Mag netism	ferromagnetism and magnetic suspectibility
28/10/2022	26	SKV	Theories of	factors affecting the crystal-field

			Coordination Chemistry	parameters
29/10/2022	27	S.K.V	Theories of Coordination Chemistry	factors affecting the crystal-field parameters
01/11/2022	2	PM	Chemical kinetics	first order, second order, pseudo order, half-life and mean life. Determination of the order of reaction differential method, method of integration, half-life method and isolation method.
02/11/2022		AT	СТ	
03/11/2022	19	AT	Inorganic Spectrosco py and Mag netism	ferromagnetism and magnetic suspectibility
05/11/2022	28	S.K.V	Theories of Coordination Chemistry	factors affecting the crystal-field parameters
07/11/2022	3	PM	Chemical kinetics	first order, second order, pseudo order, half-life and mean life. Determination of the order of reaction differential method, method of integration, half-life method and isolation method.
09/11/2022	20	AT	Inorganic Spectrosco py and Mag netism	ferromagnetism and magnetic suspectibility
10/11/2022	21	AT	Inorganic Spectrosco py and Mag netism	ferromagnetism and magnetic suspectibility
11/11/2022		SKV	ME	
12/11/2022	29	S.K.V	Theories of Coordination Chemistry	factors affecting the crystal-field parameters
14/11/2022	4	PM	Theories of Coordination	

			Chemistry	Effect of temperature on rate of reaction, Arrhenius equation, concept of activation energy. Simple collision theory based on hard sphere model
15/11/2022	5	PM	Theories of Coordination Chemistry	transition state theory (equilibrium hypothesis). Expression for the rate constant based on equilibrium constant and thermodynamic aspects (no derivation).