MAHARANA PRATAP P.G. COLLEGE JUNGLE DHUSAN GORAKHPUR

Class:B.Sc. Ist Sem. LESSION PLAN: 2022-23 Subject : Chemistry

DATE	LECTURE	TEACHER'S NAME	CHAPTER	TOPIC
01/08/2022	1.	S.K.V	Recapitulation of basics of Organic Chemisty	Hybridization, bond lengths and bond angles, bond energy,hybridization, bond lengths and bond angles, bond energy
03/08/2022	1	RS	Recapitulation of basics of Organic Chemisty	Resonance and resonance energy formal charge, hy forces
04/08/2022	2	RS	Recapitulation of basics of Organic Chemisty	ion-dipole forces, dipole- dipole interactions, induced dipole interaction, dipole moment and molecular Structure
08/08/2022	2	S.K.V	Recapitulation of basics of Organic Chemisty	Hybridization, bond lengths and bond angles, bond energy,hybridization, bond lengths and bond angles, bond energy
10/08/2022	03	RS	Recapitulation of basics of Organic Chemisty	Percentage ionic character from dipole moment, polarizing power and polarizability
11/08/2022		RS	C.T	
16/08/2022	3	S.K.V.	Recapitulation of basics of Organic Chemisty	localized and delocalized chemical bonding, hyperconjugation, Dipole moment
17/08/2022	4	RS	Basic Computer system	Hardware and Software; Input devices
22/08/2022	4	S.K.V.	Recapitulation of basics of	

			Organic Chemisty	Electronic Displacements: Inductive, electromeric, resonance mesomeric effects and their applications
23/08/2022	5	S.K.V.	Stereochemistry	Concept of isomerism, Types of isomerism; Optical i molecular chirality, enantiomers, stereogenic center
24/08/2022	5	RS	Basic Computer system	Central Processing Unit (Control Unit and Arithmetic Logic Unit)
25/08/2022		RS	M.E	
01/09/2022	6	RS	Basic Computer system	Central Processing Unit (Control Unit and Arithmetic Log
05/09/2022	6	SKV	Stereochemistry	optical activity, properties of enantiomers, chiral and achiral molecules with two stereogenic centers, disasteromers,
06/09/2022	7	SKV	Stereochemistry	threo and erythro diastereomers, meso compounds, resolution of enantiomer, inversion, retention and recemization. Relative and absolute configuration, sequence rules, D & L and R & S systems of nomenclature
07/09/2022	7	RS	Basic Computer system	Number system (Binary, Octal and Hexadecimal Operating System)
12/09/2022	8	SKV	Stereochemistry	Geometric isomerism determination of configuration of geometric isomers, E & Z system of nomenclature, Conformational isomerism conformational analysis of ethane and n-butane
13/09/2022		SKV	C.T	
15/09/2022	8	RS	Basic Computer system	Number system (Binary, Octal and Hexadecimal Operating System)
19/09/2022	1	P.M.	Mechanism of Organic	Curved arrow notation, drawing electron movements with allows, half-headed and

			Reactions	double-headed arrows
20/09/2022	2	P.M.	Mechanism of Organic Reactions	homolytic and heterolytic bond fission, Types of reagents electrophiles and nucleophiles
21/09/2022	1	A.T.	Simple bonding theories of molecules	Atomic orbitals, Aufbau principle, multiple bonding (σ and π bond approach)
22/09/2022	2	A.T.	Simple bonding theories of molecules	Bond lengths, the valence bond theory (VBT), Concept of hybridization
26/09/2022		P.M.	M.E	
27/09/2022	3	P.M.	Mechanism of Organic Reactions	Types of reagents electrophiles and nucleophiles, Types of organic reactions, Energy considerations Reactive intermediates Carbocations
10/10/2022	4	P.M.	Mechanism of Organic Reactions	carbanions, free radicals, Assigning formal charges on intermediates and other ionic species
11/10/2022	5	P.M.	Environmental Chemistry	The earth's atmosphere and its components
12/10/2022	3	A.T.	Simple bonding theories of molecules	hybrid orbitals and molecular geometry, Bents rule, Valence shell electron pair repulsion theory (VSEPR)
13/10/2022	4	A.T.	Simple bonding theories of molecules	hybrid orbitals and molecular geometry, Bents rule, Valence shell electron pair repulsion theory (VSEPR)
17/10/2022		P.M.	ME	
18/10/2022	6	P.M.	Environmental Chemistry	Types of pollutants and their sources
19/10/2022	5	A.T.	Simple Bonding theories of Molecules	shapes of the following simple molecules and ions containing lone pairs and bond pairs of electrons: H_2O, NH_3, PCl_5, SF_6, SF_4, ClF_3, I^-, ClF^- and SO^{2-} and H_3O^+. Molecular orbital theory (MOT)

20/10/2022	6	A.T.	Simple Bonding theories of Molecules	shapes of the following simple molecules and ions containing lone pairs and bond pairs of electrons: H_2O, NH_3, PCl_5, SF_6, SF_4, ClF_3, I^-, ClF^- and SO^{2-} and H_3O^+. Molecular orbital theory (MOT)
01/11/2022	7	P.M.	Environmental Chemistry	Green house effect
02/11/2022	7	.AT	Simple Bonding theories of Molecules	Molecular orbital diagrams, bond orders of homonuclear and heteronuclear diatomic molecules and ions (N2, O2, C2, B2, F2, CO, NO, and their ions)
03/11/2022		AT	C.T	
07/11/2022	8	P.M.	Environmental Chemistry	Global warming
09/11/2022	8	A.T.	Periodic properties of s and p block atoms	Effective nuclear charge, shielding or screening effect, Slater rules, Atomic and ionic radii, electronegativity, Pauling's/Allred Rochow's scales, Ionization enthalpy, electron gain enthalpy
10/11/2022	9	A.T.	Acid-Base concept	Lewis concept,concept and classification of Hard and Soft Acids and Bases.Applications of HSAB Principle
14/11/2022	09	P.M.	Environmental Chemistry	Acid rains, Ozone layer (Importance and its protection)
15/11/2022		P.M.	M.E	
