

Maharana Pratap P.G. College Jungle Dhusan, Gorakhpur

Class: M.Sc. III st Semester			Lesson Plan: 2015-16		Subject: Chemistry
Date	Lecture No	Teachers Name	Paper	Lesson	Topic
01.08.2015	1	Dr. S.K. Vernwal	III	Rearrangements	Pinacol-pinacolone rearrangement
01.08.2015	1	Dr. P.K. Rao	I	Infrared spectroscopy	Introduction, linear harmonic oscillator
03.08.2015	1	P. Mishra	II	cyclosterioisomerism	Configuration & conformation of mono substituted cyclohexane
03.08.2015	2	Dr. S.K. Vernwal	III	Rearrangements	Pinacol-pinacolone rearrangement
04.08.2015	2	Dr. S.K. Vernwal	II	Stereochemistry with chiral centre	General introduction
04.08.2015	2	Dr. R. Sahay	I	UV-visible spectroscopy	Different type of electronic transition
05.08.2015	3	Dr. S.K. Vernwal	II	Stereochemistry with chiral centre	Elements of symmetry
05.08.2015	1	P. Mishra	IV	Water soluble vitamins	Structure of vitamins
06.08.2015	3	Dr. S.K. Vernwal	III	Rearrangements	Wagner-Meerwein rearrangement
06.08.2015	2	P. Mishra	IV	Water soluble vitamins	Structure of vitamin C
07.08.2015		Dr. R. Sahay		Class Teaching	
07.08.2015	3	P. Mishra	IV	Water soluble vitamins	Structure of vitamin C
08.08.2015	4	Dr. S.K. Vernwal	III	Rearrangements	Tiffenew-Demjanover rearrangement
08.08.2015	3	Dr. P.K. Rao	I	Infrared spectroscopy	Vibrational energy of diatomic molecules, zero point energy
10.08.2015	4	P. Mishra	II	Cyclostereoisomerism	Stability of monosubstituted cyclohexane
10.08.2015	5	Dr. S.K. Vernwal	III	Rearrangements	Dienone-phenol rearrangement
11.08.2015	5	Dr. S.K. Vernwal	II	Stereochemistry	Molecules with more than one chiral centre
11.08.2015	4	Dr. R. Sahay	I	UV-visible spectroscopy	Lambert's Beer's law
12.08.2015	6	Dr. S.K. Vernwal	II	Stereochemistry with chiral centre	Theo and erythro isomer
12.08.2015	4	P. Mishra	IV	Water soluble vitamins	Biological function of vitamin C
13.08.2015	6	Dr. S.K. Vernwal	III	Rearrangements	Sommelet-Hauser rearrangement

13.08.2015	5	P. Mishra	IV	Water soluble vitamins	Structure of Vitamoin-B ₁
14.08.2015		Dr. R. Sahay		Class Teaching	
14.08.2015	6	P. Mishra	IV	Water soluble vitamins	Physiological function of Vitamin-B ₁
17.08.2015	7	P. Mishra	II	Cyclosterioisomerism	Configuration and conformation of disubstituted cyclohexane
17.08.2015	7	Dr. S.K. Vernawal	III	Rearrangments	Stevens rearrangement
18.08.2015	8	Dr. S.K. Vernwal	II	Stereochemistry with chiral centre	Interconversion of Fischer and Newmann projection
18.08.2015	5	Dr. R. Sahay	I	UV-Visible spectroscopy	Chromophores&Aux ochromos, solvent effect
20.08.2015	8	Dr. S.K. Vernwal	III	Rearrangments	Favorski rearrangement
20.08.2015	7	P. Mishra	IV	Water soluble vitamins	Structure of vitamin-B ₂
21.08.2015	6	Dr. R. Sahay	I	UV-visible spectroscopy	Wood words rule for conjugated cyclic and acyclic dienes
21.08.2015	8	P. Mishra	IV	Water soluble vitamins	Structure of vitaminB ₂
22.08.2015	9	Dr. S.K. Vernawal	III	Rearrangements	Favorski rearrangement
22.08.2015	7	Dr. P.K. Rao	I	Infrared spectroscopy	Force constant and bond Strength,Annormoni city
23.08.2015		Dr. P.K. Rao		Monthly Evaluation	
23.08.2015	8	Dr. R. Sahay	I	UV-visible spectroscopy	α,β Unsaturated carbonyl compounds
24.08.2015	9	P. Mishra	II	Cyclostereoisomerism	Stability of disubstituted cyclohexane
24.08.2015	10	Dr. S.K. Vernwal	III	Rearrangements	Wittig rearrangement
25.08.2015	10	Dr. S.K. Vernwal	II	Stereochemistry with chiral centre	Interconversion in fischer and sawhorse projection
25.08.2015	9	Dr. R. Sahay	I	UV-visible spectroscopy	Absorption in aromatic compounds
26.08.2015	11	Dr. S.K. Vernwal	II	Stereochemistry with chiral centre	Interconversion of Newmann and Sawhorse projections
26.08.2015	9	P. Mishra	IV	Water soluble vitamins	Physiological function of vitamin B ₂
27.08.2015	11	Dr. S.K. Vernwal	III	Rearrangements	Hoffmann rearrangement
27.08.2015	10	P. Mishra	IV	Fat soluble vitamins	Struture of vitamin A

31.08.2015	12	P. Mishra	IV	Cyclostereoisomerism	Chirality of disubstituted cyclohexane
31.08.2015	12	Dr. S.K. Vernwal	III	Rearrangements	Hoffmann rearrangement
01.09.2015		Dr. S.K. Vernwal		Class- Teaching	
01.09.2015	10	Dr. R.Sahay	I	Diffraction methods	X-ray principle elucidation of crystal structure NaCl by X-rays diffraction
03.09.2015	13	Dr. S.K. Vernwal	III	Rearrangements	Curtius rearrangement
03.09.2015	11	P. Mishra	IV	Fat soluble vitamins	Structure of vitamin-A
04.09.2015	11	Dr. R.Sahay	I	Diffraction methods	Structure factor and phase problem
04.09.2015	12	P. Mishra	IV	Fat soluble vitamins	Physiological function of fat soluble vitamin A
07.09.2015	13	P. Mishra	II	Stereochemistry of S and P compounds	Geometrical isomerism of C=N compound
07.09.2015	14	Dr. S.K. Vernwal	III	Rearrangements	Curtius rearrangement
08.09.2015	14	Dr. S.K. Vernwal	II	Stereochemistry with chiral centre	Configurational projections
08.09.2015	12	Dr. R.Sahay	I	Diffraction methods	Method for structure determination by trial and error methods
09.09.2015	15	Dr. S.K. Vernwal		Stereochemistry with chiral centre	R/S nomenclature
09.09.2015	13	P. Mishra		Fat soluble vitamins	Physiological function of fat soluble vitamin A
10.09.2015		Dr. S.K. Vernwal		Class- Teaching	
10.09.2015	14	P. Mishra	IV	Fat soluble vitamins	Structure of vitamin E
11.09.2015	13	Dr. RSahay	I	Diffraction methods	Fouriers method of analysis
11.09.2015	15	P. Mishra	IV	Fat soluble vitamins	Structure of vitamin E
12.09.2015	15	Dr. S.K. Vernwal	III	Rearrangements	Lossen rearrangement
12.09.2015	14	Dr. P.K. Rao	I	Infrared spectroscopy	Morse potential energy diagram
14.09.2015	16	P. Mishra	II	Stereochemistry of S & P compounds	Geometrical isomerism of C=N compounds
14.09.2015	16	Dr. S.K. Vernwal	III	Rearrangement	Schmidt rearrangement
15.09.2015	17	Dr. S.K. Vernwal	II	Stereochemistry	E/Z nomenclature
15.09.2015	15	Dr. R.Sahay	I	Diffraction methods	Patter'son function method

16.09.2015	18	Dr. S.K. Vernwal	II	Stereochemistry with axial planar chirality	Principles of axial & planar chirality
16.09.2015	16	P. Mishra	IV	Fat soluble vitamins	Structure of vitamin E
18.09.2015	16	Dr. R.Sahay	I	Electron Diffraction	Principle technique scattering
18.09.2015		P. Mishra		Class-Teaching	
19.09.2015	17	Dr. S.K. Vernwal	III	Rearrangements	Schmidt rearrangement
19.09.2015	17	Dr. P.K. Rao	I	Infrared spectroscopy	Vibration rotation spectroscopy, P, Q, R branches Breakdown of B-O Approximation
21.09.2015	19	P. Mishra	II	Stereochemistry of S and P compound	Geometrical isomerism of C=N compounds
21.09.2015	18	Dr. S.K. Vernwal	III	Rearrangement	Beckmann rearrangement
22.09.2015	20	Dr. S.K. Vernwal	II	Stereo with axial/planar chirality	Principles of axial and planar chirality
22.09.2015	18	Dr. R.Sahay	I	Electron diffraction	Intensity versus scattering angle curve
23.09.2015	21	Dr. S.K. Vernwal	II	Stereochemistry with axial planar chirality	Optical isomerism of biphenyl
23.09.2015	17	P. Mishra	IV	Fat soluble vitamins	Physiological function of vitamin-E
24.09.2015	19	Dr. S.K. Vernwal	III	Rearrangement	Bayer-villiger oxidation
24.09.2015	18	P. Mishra	IV	Fat soluble vitamins	Physiological function of vitamin - E
26.09.2015	20	Dr. S.K. Vernwal	III	Rearrangement	Bayer-villiger oxidation
26.09.2015		Dr. P.K. Rao		Class-Teaching	
28.09.2015	22	P. Mishra	II	Stereochemistry of S and P compounds	Geometrical isomerism of C=N compound
28.09.2015	21	Dr. S.K. Vernwal	III	Rearrangements	Wolf rearrangement of biphenyl
29.09.2015	23	Dr. S.K. Vernwal	II	Stereoisomerism with axial/planer chirality	optical isomerism of biphenyl
29.09.2015	19	Dr. R.Sahay	I	Electron diffraction	Wierl equation
01.10.2015	22	Dr. S.K. Vernwal	III	Rearrangements	Benzidine rearrangement
01.10.2015	19	P. Mishra	IV	Fat soluble vitamin	Structure of vitamin K ₁
03.10.2015	23	Dr. S.K. Vernwal	III	Rearrangement	Benzidine rearrangement
03.10.2015	20	Dr. P.K. Rao	I	Infrared spectroscopy	Selection rules, overtones, hot bands
05.10.2015	24	P. Mishra	II	Stereochemistry of S	Geometrical

				& Pcompounds	isomerism of C=N compound
05.10.2015	24	Dr. S.K. Vernwal	III	Pericyclic reactions	Characteristics & classification
06.10.2015	25	P. Mishra	II	Stereochemistry of S and P compounds	Geometrical isomerism of – N=N- compounds
06.10.2015		Dr. P.K. Rao		Class Teaching	
07.10.2015	26	Dr. S.K. Vernwal	II	Stereochemistry with axial/planar chirality	Optical isomerism of allenes
07.10.2015	20	P. Mishra	IV	Fat soluble vitamin	Structure and physiological function of vitamin K ₁
08.10.2015	25	Dr. S.K. Vernwal	III	Pericyclic reaction	Conservation of molecular orbital symmetry
08.10.2015	21	P. Mishra	IV	Steroidal hormones	Introduction of estrogens and Androgens
09.10.2015	21	Dr. R. Sahay	I	Electron diffraction	Low energy electron diffraction (LEED)
09.10.2015	22	P. Mishra	IV	Steroidal hormones	Structure of estrogens
10.10.2015	26	Dr. S.K. Vernwal	III	Pericyclic reaction	Study of electrocyclic reactions by correlation method
10.10.2015	22	Dr. P.K. Rao	I	Infrared spectroscopy	Absorption by common functional groups
14.10.2015	27	Dr. S.K. Vernwal	II	Stereoisomerism with axial/planar chirality	Optical isomerism of allenes
14.10.2015	23	P. Mishra	IV	Steroidal hormones	Synthesis & relationship of estradiol
15.10.2015	27	Dr. S.K. Vernwal	III	Pericyclic reaction	Study of electrocyclic reactions by correlation method
15.10.2015		P. Mishra		Class Teaching	
16.10.2015	23	Dr. R. Sahay	I	Neutron diffraction	Principle, technique
16.10.2015	24	P. Mishra	IV	Steroidal hormones	Synthesis of oestrone
17.10.2015	28	Dr. S.K. Vernwal	III	Pericyclic reactions	Study of electrocyclic reactions by FMO method
17.10.2015	24	Dr. P.K. Rao	I	Infrared spectroscopy	IR-instrumentation sampling
19.10.2015	28	P. Mishra	II	Stereochemistry of S and P compounds	Geometrical isomerism of –N=N- compound
19.10.2015	29	Dr. S.K. Vernwal	III	Pericyclic reactions	Study of electrocyclic

					reactions by FMO method
28.10.2015	29	Dr. S.K. Vernwal	II	Stereochemistry with axial/planer chirality	Optical isomerism of spiranes
28.10.2015	25	P. Mishra	IV	Steroidal hormones	Synthesis and relationship to estradiol
29.10.2015	30	Dr. S.K. Vernwal	III	Pericyclic reactions	Study of electrocyclic reactions by PMO method
29.10.2015	26	P. Mishra	IV	Steroidal hormones	Preparation of progesterone
30.10.2015	25	Dr. R. Sahay	I	Neutron diffraction	Diffraction with Electron diffraction
30.10.2015		P. Mishra		Monthly Evaluation	
31.10.2015	31	Dr. S.K. Vernwal	III	Pericyclic reactions	Study of electrocyclic reactions by PMO method
31.10.2015	26	Dr. P.K. Rao	I	Infrared spectroscopy	FT-IR Instrument
02.11.2015	30	P. Mishra	II	Stereochemistry of S & P compounds	Geometrical isomerism of $-N=N-$ compound
02.11.2015	32	Dr. S.K. Vernwal	III	Pericyclic reaction	Study of electrocyclic reactions by PMO method
03.11.2015	31	P. Mishra	III	Asymmetric synthesis	Regioselectivity
03.11.2015	27	Dr. P.K. Rao	I	Infrared spectroscopy	Problem related IR spectroscopy
04.11.2015	32	Dr. S.K. Vernwal	II	Stereochemistry with axial/planar chirality	Optical activity due to intramolecular overcrowding
04.11.2015	27	P. Mishra	IV	Steroidal hormones	Physiological function of Progesterone
05.11.2015	33	Dr. S.K. Vernwal	III	Pericyclic reaction	Study of cycloaddition reactions by correlation method
05.11.2015	28	P. Mishra	IV	Steroidal hormones	Physiological function of Progesterone
06.11.2015		Dr. R. Sahay		Class-Teaching.	
06.11.2015	29	P. Mishra	IV	Non-steroidal hormones	Structure of thyroxine
07.11.2015	34	Dr. S.K. Vernwal	III	Pericyclic reactions	Study of cycloaddition reactions by correlation method
07.11.2015	28	Dr. P.K. Rao	I	Raman spectroscopy	Theories of Raman effect classical theory

14.11.2015	35	Dr. S.K. Vernwal	III	Pericyclic reaction	Study of cycloaddition reactions by FMO method
14.11.2015	29	Dr. P.K. Rao	I	Raman spectroscopy	Quantum theory
16.11.2015	33	P. Mishra	II	Asymmetric synthesis	Stereoselectivity
16.11.2015	36	Dr. S.K. Vernwal	III	Pericyclic reactions	Study of correlation reactions by FMO method
18.11.2015	34	Dr. S.K. Vernwal	II	Topcity and prostereomerism	Introduction
18.11.2015	30	P. Mishra	IV	Non-teroidalharmones	Physiological function of thyroxin
19.11.2015	37	Dr. S.K. Vernwal	III	Pericyclic reactions	Study of cycloaddition reactions by PMO method
19.11.2015	31	P. Mishra	IV	Non-steroidal harmones	Physiological function of thyroxin
20.11.2015		Dr. R. Sahay		Class-Teaching	
20.11.2015	32	P. Mishra	IV	Non-steroidal hormones	Structure of Adrenalin
21.11.2015	38	Dr. S.K. Vernwal	III	Pericyclic reactions	Study of cycloaddition reactions by PMO method
21.11.2015	30	Dr. P.K. Rao	I	Raman spectroscopy	Selection rules, polarization, polarized and depolarized raman lines
23.11.2015	35	P. Mishra	II	Asymmetric synthesis	Stereoslectivity
23.11.2015	39	Dr. S.K. Vernwal	III	Pericyclic reactions	Study of Diel's Alder reactions
24.11.2015	36	P. Mishra	II	Asymmetric synthesis	Synthesis involving chiral catalysis
24.11.2015	31	Dr. P.K. Rao	I	Raman spectroscopy	Mutual exclusion principle, hydrogen bonding, Study of Simple molecules
25.11.2015	37	Dr. S.K. Vernwal	II	Topcity and prostereomerism	Homottopic&enantit opic atoms group & faces
25.11.2015	33	P. Mishra	IV	Non-steroidal harmones	Structure and physiological function of adrenalin
26.11.2015	40	Dr. S.K. Vernwal	III	Pericyclic reactions steroids	Study of Diels-Alder reaction
26.11.2015	34	P. Mishra	IV	Steroids	Diels hydrocarbon
27.11.2015		Dr. R. Sahay		Monthly Evolution	
27.11.2015	35	P. Mishra	IV	Steroids	Determination of ring system in

					cholesterol
28.11.2015	41	Dr. S.K. Vernwal	III	Pericyclic reaction	Study of [1,3] sigmatropic shift
28.11.2015	32	Dr. P.K. Rao	I	Raman Spectroscopy	Metal ions in solution
30.11.2015	38	P. Mishra	II	Asymmetric synthesis	Synthesis involving auxillary chiral reagen
30.11.2015	42	Dr. S.K. Vernwal	III	Pericyclic reaction	Study of [1,5] sigmatropic shift
01.12.2015	39	P. Mishra	II	Asymmetric synthesis	Synthesis involving chiral catalysis
01.12.2015	33	Dr. P.K. Rao	I	Raman Spectroscopy	Problem related with raman spectroscopy
03.12.2015	43	Dr. S.K. Vernwal	III	Pericyclic reactions	Claisen rearrangement
03.12.2015	36	P. Mishra	IV	Steroids	Dtermination of ring system in cholesterol
07.12.2015	40	P. Mishra	II	Asymmetric synthesis	Quasirecematic
07.12.2015	44	Dr. S.K. Vernwal	III	Pericyclic reactions	Cope rearrangement
08.12.2015	41	P. Mishra	II	Asymmetric synthesis	Quasi recematic optical purity
08.12.2015		Dr. P.K. Rao		Class-Teaching	
09.12.2015	42	Dr. S.K. Vernwal	II	Topcity and prostereomerism	Diastereotopic atoms, groups and faces
09.12.2015	37	P. Mishra	IV	Steroids	Position of hydroxyl group in cholesterol
11.12.2015	34	Dr. R. Sahay	I	Spectroscopy	Problems realated
11.12.2015	38	P. Mishra	IV	Steroids	Angular methyl group in cholesterol
12.12.2015	45	Dr. S.K. Vernwal	III	Pericyclic reaction	Oxy-cope and aza-cope rearrangement
12.12.2015	35	Dr. P.K. Rao	I	Raman spectroscopy	Problems related to raman spectroscopy
14.12.2015	43	P. Mishra	II	Asymmetric synthesis	Optical purity
14.12.2015	46	Dr. S.K. Vernwal	III	Pericyclic reactions	Group transfer reaction
16.12.2015	45	Dr. S.K. Vernwal	II	Topcity and prostereomerism	Nomenclature and symbols
16.12.2015		P. Mishra		Class Teaching	
17.12.2015	47	Dr. S.K. Vernwal	III	Pericyclic reaction	Group transfer reactions
17.12.2015	39	P. Mishra	IV	Steroids	Double bond in cholesterol
18.12.2015					
18.12.2015	40	P. Mishra	IV	Steroids	Position of side chain in cholesterol
19.12.2015	48	Dr. S.K. Vernwal	III	Pericyclic reactions	Chelotropic reaction
19.12.2015					
21.12.2015					

21.12.2015	49	Dr. S.K. Vernwal	III	Pericyclic reaction	Chelotropic reaction
28.12.2015					
28.12.2015		Dr. S.K. Vernwal		Monthly Evolution.	
29.12.2015					
29.12.2015					
30.12.2015	50	Dr. S.K. Vernwal	II	Topocity and prosteresmerism	Nomenclature & synthesis
30.12.2015	41	P. Mishra	IV	Steroids	Synthesis of cholesterol
31.12.2015	50	Dr. S.K. Vernwal			
31.12.2015	42	P. Mishra	IV	Steroids	Synthesis of cholesterol