Lesson Plan

Name of the Assistant Professor: Dr. Vinita Gupta

Class and Section: M.Sc. Chemistry Ist Sem Subject: Inorganic Chemistry Theory

Week	Date	Topics
	01-Aug-18	VSEPR theory
	02-Aug-18	dΛ -pΛ bonds
	03-Aug-18	Bent rule
	04-Aug-18	energetic of hybridization
	05-Aug-18	Sunday
4	06-Aug-18	Stepwise and overall formation constants and their interactions
	07-Aug-18	Contd.
	08-Aug-18	Contd.
	09-Aug-18	trends in stepwise constants
	10-Aug-18	factors affecting stability of metal complexes with reference to the nature of metal ion and ligand
	11-Aug-18	Contd.
	12-Aug-18	Sunday
5	13-Aug-18	Contd.
	14-Aug-18	Class test and Assignment given
	15-Aug-18	Independence Day
	16-Aug-18	chelate effect and its thermodynamic origin
	17-Aug-18	Contd.
	18-Aug-18	determination of binary formation constants by pH-metry and
		spectrophotometry
	19-Aug-18	Sunday
6	20-Aug-18	Contd.
	21-Aug-18	Class test and Presentation
	22-Aug-18	Id-Ul-Zuha (Bakrid)
	23-Aug-18	Inert and labile complexes
	24-Aug-18	Contd.
	25-Aug-18	Contd.
	26-Aug-18	Sunday (Raksha Bandhan)
7	27-Aug-18	Mechanisms for ligand replacement reactions
	28-Aug-18	Contd.
	29-Aug-18	Formation of complexes from aquo ions
	30-Aug-18	Contd.
	31-Aug-18	Ligand displacement reactions in octahedral complexesacid hydrolysis
	01-Sep-18	Contd.
	02-Sep-18	Sunday

8	03-Sep-18	Janamashatmi			
	04-Sep-18	Base hydrolysis			
	05-Sep-18	Contd.			
	06-Sep-18	Class test			
	07-Sep-18	racemization of tris chelate complexes			
	08-Sep-18	Contd.			
	09-Sep-18	Sunday			
9	10-Sep-18	Presentation			
	11-Sep-18	electrophilic attack on ligands			
	12-Sep-18	Contd.			
	13-Sep-18	Class test and Assignment given			
	14-Sep-18	Mechanism of ligand, displacement reactions in square planar complexes			
	15-Sep-18	Contd.			
	16-Sep-18	Sunday			
10	17-Sep-18	Contd.			
	18-Sep-18	trans effect			
	19-Sep-18	theories of trans effect			
	20-Sep-18	Contd.			
	21-Sep-18	Contd.			
	22-Sep-18	mechanism of electron transfer reactions			
	23-Sep-18	Sunday (Haryana Heroes' Martyrdom Day)			
11	24-Sep-18	Class test and Presentation			
	25-Sep-18	types; outer sphereelectron transfer mechanism and inner sphere			
		electron transfer mechanism			
	26-Sep-18	Contd.			
	27-Sep-18	Contd.			
	28-Sep-18	electron exchange			
	29-Sep-18	Revision			
	30-Sep-18	Sunday			
12	01-Oct-18	Class test			
	02-Oct-18	Mahatama Gandhi Jayanti			
	03-Oct-18	Presentation and Assignment given			
	04-Oct-18	Isopoly and Heteropoly Acids and Salts Isopoly and Heteropoly acids and			
		salts of Mo and W			
	05-Oct-18	Contd.			
	06-Oct-18	Contd.			
	07-Oct-18	Sunday			
13	08-Oct-18	Presentation			
	09-Oct-18	Structures of isopoly and heteropoly anions			
	10-Oct-18	Maharaja Agrasen Jayanti			

	11 0 -4 10	Conti
	11-Oct-18	Contd.
	12-Oct-18	Contd.
	13-Oct-18	Class test
	14-Oct-18	Sunday
14	15-Oct-18	Presentation
16-Oct-18 Crystal Structures Structures of some bina		Crystal Structures Structures of some binary and ternary compounds
		such as fluorite
	17-Oct-18	Contd.
	18-Oct-18	Dussehra
	19-Oct-18	Contd.
	20-Oct-18	antifluorite
	21-Oct-18	Sunday
15	22-Oct-18	Presentation
	23-Oct-18	rutile
	24-Oct-18	Maharishi Valmiki's Birthday
	25-Oct-18	antirutile
	26-Oct-18	crystobalite
	27-Oct-18	layer lattices- Cd I2
	28-Oct-18	Sunday
16	29-Oct-18	Presentation
	30-Oct-18	Bi 13
	31-Oct-18	Re O3, Mn2O3
	01-Nov-18	Haryana Day
	02-Nov-18	corundum, pervoskite
	03-Nov-18	Ilmenite and Calcite
	04-Nov-18	Sunday
17	05-Nov-18	Class test and Assignment given
	06 NOV	Diwali Break
	TO	
	13 NOV 14 Nov	
	To	DEVIGION, MOCK TEGT
	21 Nov	REVISION+MOCK TEST

Lesson Plan

Name of the Assistant Professor: Ms. Manisha Class and Section: M.Sc. Chemistry Ist Sem Subject: Physical Chemistry Theory

Week	Date	Topics
	16-Jul-18	Orientation of the students
1	17-Jul-18	Orientation of the students
	18-Jul-18	

	19-Jul-18	
	20-Jul-18	
	21-Jul-18	
	22-Jul-18	Sunday
2	23-Jul-18	•
	24-Jul-18	
	25-Jul-18	
	26-Jul-18	
	27-Jul-18	
	28-Jul-18	
	29-Jul-18	Sunday
3	30-Jul-18	·
	31-Jul-18	Shaheed Udham Singh's Martyrdom Day
	01-Aug-18	Thermodynamics basic terms
	02-Aug-18	Basis, need , terms used in thermodynamics
	03-Aug-18	Importance of thermodynamics
	04-Aug-18	Use of thermodynamics
	05-Aug-18	Sunday
4	06-Aug-18	Limitation of thermodynamics
	07-Aug-18	First law of thermodynamics
	08-Aug-18	Mathematical derivation of first law of thermodynamics
	09-Aug-18	Derivations derived from first law
	10-Aug-18	Application of First law
	11-Aug-18	Limitation of first law and need of IInd law
	12-Aug-18	Sunday
5	13-Aug-18	Brief description of IInd law
	14-Aug-18	Entropy defination, spontaneous process, non spontaneous process
	15-Aug-18	Independence Day
	16-Aug-18	Entropy change in reversible and irreversible process
	17-Aug-18	Variation of entropy with temperature and pressure
	18-Aug-18	Test, Assignment and presentation
	19-Aug-18	Sunday
6	20-Aug-18	Variation of entropy with volume
	21-Aug-18	Entropy concept as a measure of unavailable energy
	22-Aug-18	Id-Ul-Zuha (Bakrid)
	23-Aug-18	Maxwells thermodynaci relation
	24-Aug-18	Contd.
	25-Aug-18	Entropy as a Criteriea of Sponbtanity of reaction, free energy, enthalpy function, and their significance
	26-Aug-18	Sunday (Raksha Bandhan)
7	27-Aug-18	Crieteria for spontaneity of process

	28-Aug-18	Partial molar quantities(free energy, volume, heat concept)
	29-Aug-18	
		Gibb'sDuhem equation
	30-Aug-18	Chemical kinetics basis
	31-Aug-18	Effect of temperature on rate of reaction
	01-Sep-18	Rate law for opposing reaction of 1st oder
	02-Sep-18	Sunday
8	03-Sep-18	Janamashatmi
	04-Sep-18	Test of thermodynamics
	05-Sep-18	Rate law for opposing reaction of I <i>Ind</i> oder
	06-Sep-18	Rate law for consecutive reaction of Ist order
	07-Sep-18	Rate law for parallel reaction of Ist order
	08-Sep-18	Collistion theory of reaction rates and its limitation
	09-Sep-18	Sunday
9	10-Sep-18	Continue
	11-Sep-18	Steric factor
	12-Sep-18	Presentation and Assignment given
	13-Sep-18	Activated complex theory
	14-Sep-18	Continue
	15-Sep-18	Ionic reaction ;single and double sphere model
16-Sep-1		Sunday
10	17-Sep-18	Contd.
	18-Sep-18	Influence of solvent and ionic strength
	19-Sep-18	Contd.
	20-Sep-18	Comparison of collision and activated complex theory
	21-Sep-18	Class test
	22-Sep-18	Basis of electrochemistry
	23-Sep-18	Sunday (Haryana Heroes' Martyrdom Day)
11	24-Sep-18	Ion-Ion interaction s:The Debye-Huckel theory of ion-ion interactions
	25-Sep-18	Contd.
	26-Sep-18	Assignment and presentation
	27-Sep-18	Potential and excess chare density as a function of distance from centeral ion
	28-Sep-18	Debye Huckel length
	29-Sep-18	lonic cloud and its contribution to the potential
	30-Sep-18	Sunday
12	01-Oct-18	Debye Huckel Limiting law of activity coefficient and its limitation
	02-Oct-18	Mahatama Gandhi Jayanti
	03-Oct-18	Ion size effect on potential
	04-Oct-18	Ion size parameter and theortical mean activity coefficient in case of ionic
		clouds with finite sized ions

	05-Oct-18	Test given topic
	06-Oct-18	Assignment and presentation
	07-Oct-18	Sunday
13	08-Oct-18	Debye Huckel Onsagar treatment for Aqueous solutions and its limitations
	09-Oct-18	Contd.
	10-Oct-18	Maharaja Agrasen Jayanti
	11-Oct-18	Presentation
	12-Oct-18	Presentation
	13-Oct-18	Assignment
	14-Oct-18	Sunday
14	15-Oct-18	·
	16-Oct-18	Class test and Assignment given
	17-Oct-18	Debye Huckel Onsagar treatment for Aqueous solutions and its limitations
	18-Oct-18	Dussehra
	19-Oct-18	Contd.
	20-Oct-18	Onsagar theory for non aqueous solutions
	21-Oct-18	Sunday
15	22-Oct-18	Solvent effect on mobility at infinite dilution equivlent conductivity and concentration c1/2 as function of solvent
	23-Oct-18	Contd.
	24-Oct-18	Maharishi Valmiki's Birthday
	25-Oct-18	Class test and Presentation
	26-Oct-18	Effect of ion association upon conductivity(Debye huckel-Bjerrum equation)
	27-Oct-18	Postulates of Quantum mechanics,partical in one D box
	28-Oct-18	Sunday
16	29-Oct-18	Max born interpretation of wave function and Heisenberg's uncertainty Principle(x,p;E&t)
	30-Oct-18	Hermition operator and other operatures
	31-Oct-18	Evaluation of average value of position and momentum ,Average value of squre of Hermition operator
	01-Nov-18	Haryana Day
	02-Nov-18	Pictorial representation of the wave equation of partical in 1-D box and its influence on the kinetic energy of partical in each successive quantum level,lowest energy of the partical
	03-Nov-18	Quantum mechanical operator for linear and angular momentum,
	04-Nov-18	Sunday
17	05-Nov-18	Class test and Assignment given
	06 NOV	Diwali Break
	TO	
	13 NOV 14 Nov	
	To 21 Nov	REVISION+MOCK TEST

Lesson Plan

Name of the Assistant Professor: Ms. Rajni Class and Section: M.Sc. Chemistry Ist Sem Subject: Organic Chemistry Theory

Week	Date	Topics
		-
	16-Jul-18	Orientation of the students
	17-Jul-18	Orientation of the students
	18-Jul-18	
1	19-Jul-18	
	20-Jul-18	
	21-Jul-18	
	22-Jul-18	Sunday
2	23-Jul-18	Sunday
-	24-Jul-18	
	25-Jul-18	
	26-Jul-18	
	27-Jul-18	
	28-Jul-18	
	29-Jul-18	Com Jon
3		Sunday
3	30-Jul-18	Chaland III have Chalandary Day
	31-Jul-18	Shaheed Udham Singh's Martyrdom Day
	01-Aug-18	Delocalized chemical bonding –conjugation
	02-Aug-18	cross conjugation, resonance
	03-Aug-18	hyperconjugation
	04-Aug-18	tautomerism
4	05-Aug-18	Sunday
4	06-Aug-18	Aromaticity in benzenoid and non-benzenoid compounds
	07-Aug-18	Contd.
	08-Aug-18	alternant and non-alternant hydrocarbons
	09-Aug-18	Huckel's rule
	10-Aug-18	energy level of S-molecular orbitals
	11-Aug-18	annulenes
	12-Aug-18	Sunday
5	13-Aug-18	antiaromaticity, homo-aromaticity
	14-Aug-18	Bonds weaker than covalent, addition compounds
	15-Aug-18	Independence Day
	16-Aug-18	Class test and Presentation
	17-Aug-18	crown ether complexes and cryptands
	18-Aug-18	inclusion compounds
	19-Aug-18	Sunday
6	20-Aug-18	catenanes and rotaxanes

	21-Aug-18				
	22-Aug-18	cyclodextrins Id-Ul-Zuha (Bakrid)			
	23-Aug-18	PMO approach			
24-Aug-18		Contd.			
-	25-Aug-18	Class test and Assignment unit			
	26-Aug-18	Sunday (Raksha Bandhan)			
7	27-Aug-18	Chirality, elements of symmetry			
	28-Aug-18	molecules with more than one chiral centre			
-	29-Aug-18	diastereomerism			
-	30-Aug-18	Determination of relative and absolute configuration (octant rule excluded)			
	30 1145 10	with special reference to lactic acid			
	31-Aug-18	aniline & mandelic acid			
	01-Sep-18	Methods of resolution			
	02-Sep-18	Sunday			
8	03-Sep-18	Janamashatmi			
	04-Sep-18	optical purity, prochirality			
	05-Sep-18	enantiotopic and diastereotopic atoms, groups and faces			
	06-Sep-18	Contd. And Class test			
	07-Sep-18	asymmetric synthesis			
	08-Sep-18	cram's rule and its modifications			
	09-Sep-18	Sunday			
9	10-Sep-18	prelog's rule			
9	10-Sep-18 11-Sep-18	prelog's rule conformational analysis of cycloalkanes (upto six membered rings)			
9	11-Sep-18 12-Sep-18				
9	11-Sep-18	conformational analysis of cycloalkanes (upto six membered rings)			
9	11-Sep-18 12-Sep-18	conformational analysis of cycloalkanes (upto six membered rings) Presentation and Assignment given			
9	11-Sep-18 12-Sep-18 13-Sep-18	conformational analysis of cycloalkanes (upto six membered rings) Presentation and Assignment given decalins			
9	11-Sep-18 12-Sep-18 13-Sep-18 14-Sep-18	conformational analysis of cycloalkanes (upto six membered rings) Presentation and Assignment given decalins conformations of sugars			
9	11-Sep-18 12-Sep-18 13-Sep-18 14-Sep-18 15-Sep-18	conformational analysis of cycloalkanes (upto six membered rings) Presentation and Assignment given decalins conformations of sugars optical activity in absence of chiral carbon (biphenyls, allenes and spiranes)			
	11-Sep-18 12-Sep-18 13-Sep-18 14-Sep-18 15-Sep-18 16-Sep-18 17-Sep-18	conformational analysis of cycloalkanes (upto six membered rings) Presentation and Assignment given decalins conformations of sugars optical activity in absence of chiral carbon (biphenyls, allenes and spiranes) Sunday			
	11-Sep-18 12-Sep-18 13-Sep-18 14-Sep-18 15-Sep-18 16-Sep-18 17-Sep-18	conformational analysis of cycloalkanes (upto six membered rings) Presentation and Assignment given decalins conformations of sugars optical activity in absence of chiral carbon (biphenyls, allenes and spiranes) Sunday Contd.			
	11-Sep-18 12-Sep-18 13-Sep-18 14-Sep-18 15-Sep-18 16-Sep-18 17-Sep-18	conformational analysis of cycloalkanes (upto six membered rings) Presentation and Assignment given decalins conformations of sugars optical activity in absence of chiral carbon (biphenyls, allenes and spiranes) Sunday Contd. chirality due to helical shape			
	11-Sep-18 12-Sep-18 13-Sep-18 14-Sep-18 15-Sep-18 16-Sep-18 17-Sep-18 18-Sep-18	conformational analysis of cycloalkanes (upto six membered rings) Presentation and Assignment given decalins conformations of sugars optical activity in absence of chiral carbon (biphenyls, allenes and spiranes) Sunday Contd. chirality due to helical shape geometrical isomerism in alkenes and oximes			
	11-Sep-18 12-Sep-18 13-Sep-18 14-Sep-18 15-Sep-18 16-Sep-18 17-Sep-18 18-Sep-18 19-Sep-18	conformational analysis of cycloalkanes (upto six membered rings) Presentation and Assignment given decalins conformations of sugars optical activity in absence of chiral carbon (biphenyls, allenes and spiranes) Sunday Contd. chirality due to helical shape geometrical isomerism in alkenes and oximes methods of determining the configuration			
	11-Sep-18 12-Sep-18 13-Sep-18 14-Sep-18 15-Sep-18 16-Sep-18 17-Sep-18 18-Sep-18 19-Sep-18 20-Sep-18	conformational analysis of cycloalkanes (upto six membered rings) Presentation and Assignment given decalins conformations of sugars optical activity in absence of chiral carbon (biphenyls, allenes and spiranes) Sunday Contd. chirality due to helical shape geometrical isomerism in alkenes and oximes methods of determining the configuration Class test			
	11-Sep-18 12-Sep-18 13-Sep-18 14-Sep-18 15-Sep-18 16-Sep-18 17-Sep-18 19-Sep-18 20-Sep-18 21-Sep-18	conformational analysis of cycloalkanes (upto six membered rings) Presentation and Assignment given decalins conformations of sugars optical activity in absence of chiral carbon (biphenyls, allenes and spiranes) Sunday Contd. chirality due to helical shape geometrical isomerism in alkenes and oximes methods of determining the configuration Class test Types of mechanisms, types of reactions			
10	11-Sep-18 12-Sep-18 13-Sep-18 14-Sep-18 15-Sep-18 16-Sep-18 17-Sep-18 19-Sep-18 20-Sep-18 21-Sep-18 22-Sep-18 23-Sep-18	conformational analysis of cycloalkanes (upto six membered rings) Presentation and Assignment given decalins conformations of sugars optical activity in absence of chiral carbon (biphenyls, allenes and spiranes) Sunday Contd. chirality due to helical shape geometrical isomerism in alkenes and oximes methods of determining the configuration Class test Types of mechanisms, types of reactions Sunday (Haryana Heroes' Martyrdom Day)			
10	11-Sep-18 12-Sep-18 13-Sep-18 14-Sep-18 15-Sep-18 16-Sep-18 17-Sep-18 19-Sep-18 20-Sep-18 21-Sep-18 22-Sep-18 23-Sep-18	conformational analysis of cycloalkanes (upto six membered rings) Presentation and Assignment given decalins conformations of sugars optical activity in absence of chiral carbon (biphenyls, allenes and spiranes) Sunday Contd. chirality due to helical shape geometrical isomerism in alkenes and oximes methods of determining the configuration Class test Types of mechanisms, types of reactions Sunday (Haryana Heroes' Martyrdom Day) thermodynamic and kinetic requirements			
10	11-Sep-18 12-Sep-18 13-Sep-18 14-Sep-18 15-Sep-18 16-Sep-18 17-Sep-18 18-Sep-18 20-Sep-18 21-Sep-18 22-Sep-18 23-Sep-18 24-Sep-18 25-Sep-18	conformational analysis of cycloalkanes (upto six membered rings) Presentation and Assignment given decalins conformations of sugars optical activity in absence of chiral carbon (biphenyls, allenes and spiranes) Sunday Contd. chirality due to helical shape geometrical isomerism in alkenes and oximes methods of determining the configuration Class test Types of mechanisms, types of reactions Sunday (Haryana Heroes' Martyrdom Day) thermodynamic and kinetic requirements kinetic and thermodynamic control			
10	11-Sep-18 12-Sep-18 13-Sep-18 14-Sep-18 15-Sep-18 16-Sep-18 17-Sep-18 19-Sep-18 20-Sep-18 21-Sep-18 22-Sep-18 23-Sep-18 24-Sep-18 25-Sep-18 26-Sep-18	conformational analysis of cycloalkanes (upto six membered rings) Presentation and Assignment given decalins conformations of sugars optical activity in absence of chiral carbon (biphenyls, allenes and spiranes) Sunday Contd. chirality due to helical shape geometrical isomerism in alkenes and oximes methods of determining the configuration Class test Types of mechanisms, types of reactions Sunday (Haryana Heroes' Martyrdom Day) thermodynamic and kinetic requirements kinetic and thermodynamic control Hammond's postulate, Potential energy diagrams			
10	11-Sep-18 12-Sep-18 13-Sep-18 14-Sep-18 15-Sep-18 16-Sep-18 17-Sep-18 19-Sep-18 20-Sep-18 21-Sep-18 22-Sep-18 23-Sep-18 24-Sep-18 25-Sep-18 26-Sep-18	conformational analysis of cycloalkanes (upto six membered rings) Presentation and Assignment given decalins conformations of sugars optical activity in absence of chiral carbon (biphenyls, allenes and spiranes) Sunday Contd. chirality due to helical shape geometrical isomerism in alkenes and oximes methods of determining the configuration Class test Types of mechanisms, types of reactions Sunday (Haryana Heroes' Martyrdom Day) thermodynamic and kinetic requirements kinetic and thermodynamic control Hammond's postulate, Potential energy diagrams Curtin-Hammett principle, transition states and intermediates			

01-Oct-18	Hard and soft acids and bases		
	Mahatama Gandhi Jayanti		
	Generation, structure, stability and reactivity of carbocations		
	Generation, structure, stability and reactivity of carbocations Generation, structure, stability and reactivity of carbanion		
	free radicals		
	carbenes and nitrenes		
	Sunday		
	Effect of structure on reactivity		
	,		
	The Hammett equation and linear free energy relationship Maharaja Agrasen Jayanti		
	Presentation		
	Presentation		
	substituent and reaction constants Sunday		
	·		
	Taft equation		
	Class test and Assignment given		
	Types of naturally occurring sugars. Deoxy sugars, amino sugars, branched chain sugars Dussehra		
	Contd.		
20-Oct-18	General methods of determination of str.and ring size of sugars with particular refrence to Maltose, Lactose, Sucrose		
21-Oct-18	Sunday		
22-Oct-18	Contd.		
23-Oct-18	Contd.		
24-Oct-18	Maharishi Valmiki's Birthday		
25-Oct-18	Class test and Presentation		
26-Oct-18	Starch and Cellulose		
27-Oct-18	Contd.		
28-Oct-18	Sunday		
29-Oct-18	Presentation and Assignment given		
30-Oct-18	Various classes of synthetic dyes including Heterocyclic dyes, Interaction between dyes and fibres		
31-Oct-18	Contd.		
01-Nov-18	Haryana Day		
02-Nov-18	Structure elucidation of Indigo and Alizarin		
03-Nov-18	Contd.		
04-Nov-18	Sunday		
05-Nov-18	Class test and Assignment given		
	Diwali Break		
ТО	· · · · · · · · · · ·		
13 NOV			
	REVISION+MOCK TEST		
	22-Oct-18 23-Oct-18 24-Oct-18 25-Oct-18 26-Oct-18 27-Oct-18 28-Oct-18 29-Oct-18 30-Oct-18 31-Oct-18 01-Nov-18 02-Nov-18 04-Nov-18 05-Nov-18 06 NOV TO		

K.L. MEHTA DAYANAND COLLEGE FOR WOMEN, FARIDABAD

LESSON PLAN

Name of Assistant Professor: Dr. Annu Kalra

Class: M.Sc (F) Chemistry, 3rd Semester

Subject: Nuclear and Radiochemistry (Inorganic Special II), Paper: XVII (a), 17CHE23GA2

WEEK	DATE	TOPIC
2	23 JULY 18	(a) Introduction to water
		quality parameters:
		Analytical method for
		measuring dissolved
		oxygen (b) Nuclear
		Binding energy:
		justification and
		applications
	24 JULY 18	(a) Analytical method for
		measuring
		Biochemical oxygen
		demand (b)
		Applications
		(continued)
	25 JULY 18	Nuclear stability rules
	26 JULY 18	Stability rules (continued)
	27 JULY 18	Decay of Unstable nuclei
	28 JULY 18	Unstable nuclei (continued)
	29 JULY 18	SUNDAY
3	30 JULY 18	(a) Analytical method for
		measuring Chemical
		oxygen demand (b)
		Test of the above
		topics
	31 JULY 18	SHAHEED UDHAM
		SINGH'S MARTYRDOM
		DAY
	01 AUGUST 18	Introduction to Nuclear forces
	02 AUGUST 18	Liquid Drop Model
	03 AUGUST 18	LDM (continued)
	04 AUGUST 18	Shell Model
	05 AUGUST 18	SUNDAY

4	06 AUGUST 18	(a) Analytical method for measuring fluoride ion content (b) Shell Model (continued)
	07 AUGUST 18	(a) Analytical method for measuring oils and grease (b) Collective Model
	08 AUGUST 18	Collective Model (continued)
	09 AUGUST 18	Class Discussion and Doubts
	10 AUGUST 18	Test of the above three models
	11 AUGUST 18	Interaction of radiation with matter: physical effects
	12 AUGUST 18	SUNDAY
5	13 AUGUST 18	(a) Analytical methods for measuring arsenic metal content (b) Physical effects (continued)
	14 AUGUST 18	(a) Analytical methods for measuring cadmium metal content (b) Chemical effects of radiation with matter: photoelectric effect
	15 AUGUST 18	INDEPENDENCE DAY
	16 AUGUST 18	Photoelectric effect (continued)
	17 AUGUST 18	Compton effect
	18 AUGUST 18	Compton effect (continued)
	19 AUGUST 18	SUNDAY
6	20 AUGUST 18	(a) Analytical methods for measuring mercury content (b) Pair production
	21 AUGUST 18	(a) Analytical methods for measuring lead content (b) Pair production (continued)
	22 AUGUST 18	ID-Ul-ZUHA(BAKRID)
	23 AUGUST 18	Class discussion and doubts
	24 AUGUST 18	Test of physical and chemical effects
	25 AUGUST 18	Introduction to radiochemical techniques: NAA and its

		principle
	26 AUGUST 18	SUNDAY (RAKSHA BANDHAN)
7	27 AUGUST 18	(a) Analytical methods for measuring zinc content (b) Applications and limitations of NAA
	28 AUGUST 18	(a) Analytical methods for measuring copper content (b) IDA and its principle and applications
	29 AUGUST 18	Applications (continued) and limitations of IDA
	30 AUGUST 18	Radiometric Titrations
	31 AUGUST 18	Radiometric titrations (continued)
	01 SEPTEMBER 18	Class discussion and doubts
	02 SEPTEMBER 18	SUNDAY
8	03 SEPTEMBER 18	JANAMASHATAMI
	04 SEPTEMBER 18	(a) Analytical methods for measuring chromium content (b) Test of radiometric titrations
	05 SEPTEMBER 18	Introduction to detection of nuclear radiations
	06 SEPTEMBER 18	Various methods for detecting nuclear radiations
	07 SEPTEMBER 18	Introduction to gas filled counters
	08 SEPTEMBER 18	Gas filled counters (continued)
	09 SEPTEMBER 18	SUNDAY
9	10 SEPTEMBER 18	(a) Test from various analytical methods for water quality parameters (b) Ionization chamber and its set up
	11 SEPTEMBER 18	(a) Biochemical effects of arsenic (b) Ionization chamber (continued)
	12 SEPTEMBER 18	Proportional counter
	13 SEPTEMBER 18	Proportional counter (continued)

	14 SEPTEMBER 18	Geiger muller counters
	15 SEPTEMBER 18	GM counters (continued)
	16 SEPTEMBER 18	SUNDAY
10	17 SEPTEMBER 18	(a) Biochemical effects of cadmium (b) Introduction to
		Scintillation detectors
	18 SEPTEMBER 18	(a) Biochemical effects of mercury (b) Scintillation detectors (continued)
	19 SEPTEMBER 18	Solid state detectors
	20 SEPTEMBER 18	Solid state detectors (continued)
	21 SEPTEMBER 18	Class discussion and doubts
	22 SEPTEMBER 18	Test of Ionization chamber, proportional counter and GM counters
	23 SEPTEMBER 18	SUNDAY(HARYANA HEROES' MARTYRDOM DAY)
11	24 SEPTEMBER 18	(a) Biochemical effects of lead (b) Test of Scintillation detectors and solid state detectors
	25 SEPTEMBER 18	(a) Biochemical effects of chromium (b) Introduction to Energetics of Nuclear Reactions
	26 SEPTEMBER 18	Energetics (continued)
	27 SEPTEMBER 18	Introduction to various types of nuclear reactions : photonuclear reactions
	28 SEPTEMBER 18	Photonuclear reactions (continued)
	29 SEPTEMBER 18	Thermonuclear reactions
	30 SEPTEMBER 18	SUNDAY
12	01 OCTOBER 18	(a) Biochemical effects of cyanides (b) arsenic Thermonuclear reactions (continued)
	02 OCTOBER 18	MAHATAMA GANDHI JAYANTI
	03 OCTOBER 18	Spallation reactions

	04 OCTOBER 18	Spallation reactions
	04 OCTOBER 18	(continued)
	05 OCTOBED 10	Mechanism of nuclear
	05 OCTOBER 18	
		reaction by compound
		nucleus model
	06 OCTOBER 18	Compound nucleus model
		(continued)
	07 OCTOBER 18	SUNDAY
13	08 OCTOBER 18	(a) Biochemical effects of
		pesticides (b) Class
		discussion and doubts
	09 OCTOBER 18	(a) Class discussion and
		doubts from
		biochemical effects (b)
		Test of various nuclear
		reactions
	10 OCTOBER 18	MAHARAJA AGRASEN
	10 OCTOBER 10	JAYANTI
	11 OCTODED 10	
	11 OCTOBER 18	Introduction to Nuclear
	12 O CTTO DED 10	fission and fission probability
	12 OCTOBER 18	Fission probability
		(continued)
	13 OCTOBER 18	Introduction to energy release
	14 OCTOBER 18	SUNDAY
14	15 OCTOBER 18	(a) Test from biochemical
		effects of metals and
į.		
		metalloids (b) Energy
		metalloids (b) Energy release (continued)
	16 OCTOBER 18	release (continued)
	16 OCTOBER 18	release (continued) (a) Introduction to
	16 OCTOBER 18	release (continued) (a) Introduction to lithosphere and soil
	16 OCTOBER 18	release (continued) (a) Introduction to lithosphere and soil composition (b)
		release (continued) (a) Introduction to lithosphere and soil composition (b) Theories of fission
	16 OCTOBER 18 17 OCTOBER 18	release (continued) (a) Introduction to lithosphere and soil composition (b) Theories of fission Theories of fission
	17 OCTOBER 18	release (continued) (a) Introduction to lithosphere and soil composition (b) Theories of fission Theories of fission (continued)
	17 OCTOBER 18 18 OCTOBER 18	release (continued) (a) Introduction to lithosphere and soil composition (b) Theories of fission Theories of fission (continued) DUSSHERA
	17 OCTOBER 18 18 OCTOBER 18 19 OCTOBER 18	release (continued) (a) Introduction to lithosphere and soil composition (b) Theories of fission Theories of fission (continued) DUSSHERA Class discussion and doubts
	17 OCTOBER 18 18 OCTOBER 18	release (continued) (a) Introduction to lithosphere and soil composition (b) Theories of fission Theories of fission (continued) DUSSHERA Class discussion and doubts Test of fission probability and
	17 OCTOBER 18 18 OCTOBER 18 19 OCTOBER 18 20 OCTOBER 18	release (continued) (a) Introduction to lithosphere and soil composition (b) Theories of fission Theories of fission (continued) DUSSHERA Class discussion and doubts Test of fission probability and theories of fission
	17 OCTOBER 18 18 OCTOBER 18 19 OCTOBER 18 20 OCTOBER 18 21 OCTOBER 18	release (continued) (a) Introduction to lithosphere and soil composition (b) Theories of fission Theories of fission (continued) DUSSHERA Class discussion and doubts Test of fission probability and theories of fission SUNDAY
15	17 OCTOBER 18 18 OCTOBER 18 19 OCTOBER 18 20 OCTOBER 18	release (continued) (a) Introduction to lithosphere and soil composition (b) Theories of fission Theories of fission (continued) DUSSHERA Class discussion and doubts Test of fission probability and theories of fission SUNDAY (a) Micronutrients in soil
15	17 OCTOBER 18 18 OCTOBER 18 19 OCTOBER 18 20 OCTOBER 18 21 OCTOBER 18	release (continued) (a) Introduction to lithosphere and soil composition (b) Theories of fission Theories of fission (continued) DUSSHERA Class discussion and doubts Test of fission probability and theories of fission SUNDAY (a) Micronutrients in soil (b) Introduction to
15	17 OCTOBER 18 18 OCTOBER 18 19 OCTOBER 18 20 OCTOBER 18 21 OCTOBER 18	release (continued) (a) Introduction to lithosphere and soil composition (b) Theories of fission Theories of fission (continued) DUSSHERA Class discussion and doubts Test of fission probability and theories of fission SUNDAY (a) Micronutrients in soil
15	17 OCTOBER 18 18 OCTOBER 18 19 OCTOBER 18 20 OCTOBER 18 21 OCTOBER 18	release (continued) (a) Introduction to lithosphere and soil composition (b) Theories of fission Theories of fission (continued) DUSSHERA Class discussion and doubts Test of fission probability and theories of fission SUNDAY (a) Micronutrients in soil (b) Introduction to
15	17 OCTOBER 18 18 OCTOBER 18 19 OCTOBER 18 20 OCTOBER 18 21 OCTOBER 18	release (continued) (a) Introduction to lithosphere and soil composition (b) Theories of fission Theories of fission (continued) DUSSHERA Class discussion and doubts Test of fission probability and theories of fission SUNDAY (a) Micronutrients in soil (b) Introduction to nuclear fusion: idea
15	17 OCTOBER 18 18 OCTOBER 18 19 OCTOBER 18 20 OCTOBER 18 21 OCTOBER 18 22 OCTOBER 18	release (continued) (a) Introduction to lithosphere and soil composition (b) Theories of fission Theories of fission (continued) DUSSHERA Class discussion and doubts Test of fission probability and theories of fission SUNDAY (a) Micronutrients in soil (b) Introduction to nuclear fusion: idea about breeder reactors
15	17 OCTOBER 18 18 OCTOBER 18 19 OCTOBER 18 20 OCTOBER 18 21 OCTOBER 18 22 OCTOBER 18	release (continued) (a) Introduction to lithosphere and soil composition (b) Theories of fission Theories of fission (continued) DUSSHERA Class discussion and doubts Test of fission probability and theories of fission SUNDAY (a) Micronutrients in soil (b) Introduction to nuclear fusion: idea about breeder reactors (a) Macronutrients in soil

	24 OCTOBER 18	MAHARISHI VALMIKI'S JAYANTI
	25 OCTOBER 18	Accelerators and its
		description
	26 OCTOBER 18	Accelerators (continued)
	27 OCTOBER 18	Cyclotron and its description
	28 OCTOBER 18	SUNDAY
16	29 OCTOBER 18	(a) Soil pollution and fertilizers (b) Cyclotron (continued)
	30 OCTOBER 18	(a) Soil pollution and pesticides (b) Test of breeder reactors, accelerators and cyclotron
	31 OCTOBER 18	Presentations from students (Group 1)
	01 NOVEMBER 18	HARYANA DAY
	02 NOVEMBER 18	Presentations from students (Group 2)
	03 NOVEMBER 18	Doubts from Section A and B
	04 NOVEMBER 18	SUNDAY
17	05NOVEMBER 18	(a) Revision from Unit 1 of Environmental chemistry (b) Doubts from Section C and D
	06 NOV	Diwali Break
	TO 13 NOV	
	14 Nov To	REVISION+MOCK
	21 Nov	TEST

K.L. MEHTA DAYANAND COLLEGE FOR WOMEN, FARIDABAD

LESSON PLAN

Name of Assistant Professor: Ms. SHWETA CHATURVEDI

Class: M.Sc (F) Chemistry, 3rd Semester

Subject: Bio-Inorganic Chemistry and Environmental Chemistry (Inorganic Special III), Paper:

XVIII (a), CY (H)-303(a)

WEEK	DATE	TOPIC
2	23 JULY 18	General survey of essential
		and trace metals.
	24 JULY 18	General survey of metals
		(continued)
	25 JULY 18	(a) Cement Industry
		(b) Disturbing factors
		(Toxicity) in
		metabolic process.
	26 JULY 18	(a) Cement Industry
		(continued)
		(b) Disturbing factors
		(continued)
	27 JULY 18	Causes of diseases
	28 JULY 18	Causes of diseases
		(continued)
	29 JULY 18	SUNDAY
3	30 JULY 18	Test of the topic- General
		survey of essential and trace
		metals
	31 JULY 18	SHAHEED UDHAM
		SINGH'S MARTYRDOM
	01 A LIGHTOT 10	DAY
	01AUGUST 18	(a) Paper and Pulp
		Industry
		(b) Different classes of
	02 AUGUST 18	drugs
	02 AUGUST 18	(a) Paper and Pulp Industry (continued)
		(b) Different classes of
		drugs (continued)
	03 AUGUST 18	Ionophores
	04 AUGUST 18	Active transport of cations
	04 NOGOST 10	across membranes
	05 AUGUST 18	SUNDAY
4	06 AUGUST 18	Sodium pump
•	07 AUGUST 18	Sodium pump
	0, 110 3051 10	(continued)
	08 AUGUST 18	(a) Drug Industry
		(b) Calcium pump
	09 AUGUST 18	(a) Drug Industry
	3, 113 002 1 10	(continued)
		(b) Calcium pump
		(continued)
		(======================================
	10 AUGUST 18	Calcium carriers
	10110 0001 10	CWITIWIII VMITIVID

	11 AUGUST 18	Role of carriers in muscle
	11110000110	contraction
	12 AUGUST 18	SUNDAY
5	13 AUGUST 18	Role of carriers in blood
		clotting and hormones
	14 AUGUST 18	Metals ions in nucleotide
		systems
	15 AUGUST 18	INDEPENDENCE DAY
	16 AUGUST 18	(a) Thermal power plants
		(b) Metals ions in
		nucleotide systems
		(continued)
	17 AUGUST 18	Effects of metal ions on
		nucleic acids
	18 AUGUST 18	Effects of metal ions on
	10.1170725710	nucleic acids (continued)
	19 AUGUST 18	SUNDAY
6	20 AUGUST 18	Oxygen carriers: Porphyrins
	21 ALIGUIGE 10	and Metalloporphyrins
	21 AUGUST 18	Hemoprotiens: structure and
	22 ALICHIET 10	functions of hemoglobin
	22 AUGUST 18	ID-Ul-ZUHA(BAKRID)
	23AUGUST 18	(a) Thermal power plants
		(continued)
		(b) Hemoprotiens: structure and functions of
		myoglobin
	24 AUGUST 18	Synthetic model of oxygen
	24 AUGUST 10	carrier model systems
	25 AUGUST 18	Synthetic model of oxygen
	25 116 6651 16	carrier model systems
		(continued)
	26 AUGUST 18	SUNDAY (RAKSHA
		BANDHAN)
7	27 AUGUST 18	(b) Biological nitrogen
		fixation
	28 AUGUST 18	Nitrogenase enzyme and its
		model
	29 AUGUST 18	(a) Nuclear power plants
		(b) Metal-nitrogen
		complexes
	30 UGUST 18	(a) Nuclear power plants
		(continued)
		(b) Photosynthesis
	31 AUGUST 18	Test from Hemoprotiens:
		structure and functions of

		hemoglobin and myoglobin
	01 SEPTEMBER 18	Chlorophyll
	02 SEPTEMBER 18	SUNDAÝ
8	03 SEPTEMBER 18	JANAMASHATAMI
	04 SEPTEMBER 18	Metal transport and storage:
		Transferrin
	05 SEPTEMBER 18	(a) Metallurgy
		(b) Transferrin
		(continued)
	06 SEPTEMBER 18	(a) Metallurgy
		(continued)
		(b) Ferritin
	07 SEPTEMBER 18	Ferritin (continued)
	00 CEDTEMBED 10	Sidamanhamas
	08 SEPTEMBER 18 09 SEPTEMBER 18	Siderophores SUNDAY
Δ		
9	10 SEPTEMBER 18	Siderophores (continued)
	11 SEPTEMBER 18	Discussion class on Nitrogen Fixation
	12 SEPTEMBER 18	(a) Polymers
	12 SEPTEMBER 16	(b) Metalloenzymes: Zinc
		enzymes-
		Carboxypeptidase
	13 SEPTEMBER 18	(a) Polymers (continued)
	13 SEFTEMBER 18	(b) Carboxypeptidase
		(continued)
	14 SEPTEMBER 18	Carbonic anhydrase
	15 SEPTEMBER 18	Carbonic anhydrase
	13 SEI TEMBER 10	(continued)
	16 SEPTEMBER 18	SUNDAY
10	17 SEPTEMBER 18	Doubt class on Nitrogen
10	Tr SEI TEMBER 10	Fixation
	18 SEPTEMBER 18	Test of the topic: Nitrogen
	10 221 1211221110	Fixation
	19 SEPTEMBER 18	(a) Radionuclide analysis
		(b) Iron enzymes- catalase
	20 SEPTEMBER 18	(a) Radionuclide analysis
		(continued)
		(b) Iron enzymes- catalase
		(continued)
	21 SEPTEMBER 18	Peroxidase enzyme
	22 SEPTEMBER 18	Peroxidase enzyme
		(continued)
	23 SEPTEMBER 18	SUNDAY(HARYANA
		HEROES' MARTYRDOM

		DAY)
	24SEPTEMBER 18	Cytochrome P-450
	25 SEPTEMBER 18	Cytochrome P-450
		(continued)
	26 SEPTEMBER 18	(a) Radionuclide analysis
		(continued)
		(b) Cytochrome P-450
		(continued)
	27 SEPTEMBER 18	(a) Discussion and doubt
		class
		(b) Revision class- Iron
		enzymes
	28 SEPTEMBER 18	Copper enzymes- Superoxide
		dismutase
	29 SEPTEMBER 18	Superoxide dismutase
		(continued)
	30 SEPTEMBER 18	SUNDAY
12	01 OCTOBER 18	Blue copper proteins
	02 OCTOBER 18	MAHATAMA GANDHI
		JAYANTI
	03 OCTOBER 18	(a) Test on cement and
		sugar industry
		(b) Blue copper proteins
		(continued)
	04 OCTOBER 18	(a) Disposal of wastes
		(b) Blue copper proteins
		(continued)
	05 OCTOBER 18	Coenzymes- vitamin B12
	06 OCTOBER 18	Coenzymes- vitamin B12
		(continued)
	07 OCTOBER 18	SUNDAY
13	08 OCTOBER 18	Atmosphere: Chemical
		composition of atmosphere
		and atmospheric structure
	09 OCTOBER 18	Earth's radiation balance
	09 OCTOBER 18	Earth's radiation balance
	10 OCTOBER 18	MAHARAJA AGRASEN JAYANTI
	11 OCTOBER 18	(a) Wastes management
		(b) Oxides of N,C,S
	12 OCTOBER 18	(a) Wastes management
		(continued)
		(b) Effects of oxides of
		N,C,S
	13 OCTOBER 18	Green house effect and acid

		rain
	14 OCTOBER 18	SUNDAY
14	15 OCTOBER 18	Photochemical smog
	16 OCTOBER 18	Air quality standards
	17 OCTOBER 18	(a) Test of disposal of
		wastes and their
		management
		(b) Class discussion and
		doubts
	18 OCTOBER 18	DUSSHERA
	19 OCTOBER 18	Presentations from students
		(Group 1) on Depletion of
		ozone and particulate matter
		in air
	20 OCTOBER 18	Presentations from students
		(Group 2) on mechanism of
		aerosol formation in air,
		Noise pollution and health hazards
	21 OCTOBER 18	SUNDAY
15	22 OCTOBER 18	Doubts of copper enzymes
13	23 OCTOBER 18	Test of copper enzymes
	24 OCTOBER 18	MAHARISHI VALMIKI'S
	21 OCTOBER 10	JAYANTI
	25 OCTOBER 18	(a) Class discussion and
		doubts
		(b) Doubts of coenzymes
	26 OCTOBER 18	Test of coenzymes
	27 OCTOBER 18	Class discussion and doubts
	28 OCTOBER 18	SUNDAY
16	29 OCTOBER 18	Revision from Unit 4
	30 OCTOBER 18	Revision from Unit 4
	31 OCTOBER 18	(a) Presentations from
		students (Group 1)
		(b) Presentation
	04 MOMENTO TO 40	(continued)
	01 NOVEMBER 18	HARYANA DAY
	02 NOVEMBER 18	Presentations from students
	02 NOVEMBER 10	(Group 2)
	03 NOVEMBER 18	Doubts from Section A and B
17	04 NOVEMBER 18	SUNDAY
17	05NOVEMBER 18	Doubts from Section C and D
	06 NOV	Diwali Break
	ТО	
	13 NOV	

14 Nov	
To	REVISION+MOCK
21 Nov	TEST

Lesson Plan

Name of the Assistant Professor: SONIA CHOUDHARY

Class and Section: M.Sc(F)

Subject: INSTRUMENTAL TECHNIQUES

Week	Date	Topics
	16-Jul-18	Orientation of the students
	17-Jul-18	Orientation of the students
	18-Jul-18	
1	19-Jul-18	
	20-Jul-18	
	21-Jul-18	
	22-Jul-18	Sunday
2	23-Jul-18	Vibrational spectroscopy: symmetry and shapes of AB ₂ , AB ₃
_	24-Jul-18	Continue with symmetry of above molecules
	25-Jul-18	Problems related with AB2, AB3
	26-Jul-18	Symmetry and shapes of AB4,AB5,AB6
	27-Jul-18	A-Continue with symmetry of the above molecule.
	27 841 10	B-importance and principle of green chemistry.
	28-Jul-18	A-Problems related with AB4,AB5,AB6
		B-thrust areas and applications of non conventional techniques in organic synthesis.ultrasonic
	29-Jul-18	Sunday
3	30-Jul-18	Test and discussion.
	31-Jul-18	Shaheed Udham Singh's Martyrdom Day
	01-Aug-18	Modes of bonding of ambidentate ligands, ethylenediamine and diketonate complexes.
	02-Aug-18	Modes of bonding continued.
	03-Aug-18	A-Discussion of the problems.
		B-applications continued: microwave and grinding.
	04-Aug-18	A-Application of resonance raman spectroscopy particularly for the study of
		active sites of metalloprotein as myoglobin.
	05-Aug-18	B-solid state synthesis
4	05-Aug-18 06-Aug-18	Sunday Applications continued and revision
7	07-Aug-18	Test and discussion
	07-Aug-18	
	Uo-Aug-18	Application of resonance raman spectroscopy particularly for the study of active sites of metalloprotein as haemoglobin.
	09-Aug-18	Application continued and problems discussion

	10 A 10	LA FORD CO.
	10-Aug-18	A-ESR Spectroscopy: introduction and principle. B-solid state synthesis continued
	11-Aug-18	A-presentation of the spectrum and hyperfine coupling
	111145 10	B-synthesis under solvent free conditions.
	12-Aug-18	Sunday
5	13-Aug-18	Hyperfine coupling continued and discussion
	14-Aug-18	Test and discussion of the test
	15-Aug-18	Independence Day
	16-Aug-18	Splitting in various structures. Factors affecting magnitude of g
	17-Aug-18	A-Problem related with splitting
	10.1.10	B-synthesis under solvent free conditions continued.
	18-Aug-18	A-Zero field splitting and kramer's degeneracy
	19-Aug-18	B-use of ionic liquids Sunday
6	20-Aug-18	Applications to transition metal complexes having one unpaired electron.
	21-Aug-18	Applications continued.
	22-Aug-18	Id-Ul-Zuha (Bakrid)
	23-Aug-18	Applications to transition metal complexes having more than one unpaired
	23 714 10	electron
	24-Aug-18	A-Applications continued.
		B-use of ionic liquid continued.
	25-Aug-18	A-discussions of problems
	26.4.10	B-Persistant organic pollutants:aldrin
7	26-Aug-18	Sunday (Raksha Bandhan)
/	27-Aug-18	Test and discussion
	28-Aug-18	Applications to inorganic free radicals
	29-Aug-18	Applications continued.
	30-Aug-18	Study of electron exchange reactions and discussion.
	31-Aug-18	A-Mossbauer spectroscopy:basic principles
		B-aldrin continued
	01-Sep-18	A-spectral display in Mossbauer spectroscopy.
	02-Sep-18	B-chlordane Sunday
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8	03-Sep-18	Janamashatmi
	04-Sep-18	Test and discussion
	05-Sep-18	Isomer shift Factors affecting the magnitude of isomer shift
	06-Sep-18	Quadrupole and magnetic hyperfine interaction
	07-Sep-18	A-Hyper fine interaction in compounds.
		B-chlordane continued
	08-Sep-18	A-Discussion of the problems.
	09-Sep-18	B-dieldrin Sunday
- 0	-	
9	10-Sep-18	Test and discussion
	11-Sep-18	Applications of technique to the study of bonding and structure of Fe ₂₊ and Fe ₃₊

		compounds
	12-Sep-18	Applications continued
	13-Sep-18	Problems based on Fe2+ and Fe3+ compounds
	14-Sep-18	A-Applications of technique to the study of bonding and structure of Sn2+ and
		Sn4+ compounds
	15 Can 10	B-dieldrin continued
	15-Sep-18	A-Applications continued B-dioxins
	16-Sep-18	Sunday
10	17-Sep-18	Problems based on Sn2+ and Sn4+ compounds.
	18-Sep-18	Study of electron exchange reaction and revision
	19-Sep-18	Test and discussion.
	20-Sep-18	Mass spectroscopy: principle and representation of mass spectroscopy
	21-Sep-18	A-Interaction of molecule with high electrons.
	22.5.10	B-dioxins continued.
	22-Sep-18	A-Interpretation of mass spectrum B-DDT
	23-Sep-18	Sunday (Haryana Heroes' Martyrdom Day)
11	24-Sep-18	Effect of isotopes on appearance of mass spectrum
	25-Sep-18	Problems based on isotopes apperance
	26-Sep-18	Applications – finger print application, molecular weight determination
	27-Sep-18	Applications- evaluation of heat of sublimation of high melting point.
	28-Sep-18	A-Applications continued B-DDT continued
	29-Sep-18	A-Problems based on applications B-Endrins
	30-Sep-18	Sunday
12	01-Oct-18	Test and discussion
	02-Oct-18	Mahatama Gandhi Jayanti
	03-Oct-18	NMR spectroscopy: introduction to F19 and P31 NMR spectra
	04-Oct-18	F19 spectra of fluoroacetone, 1bromo-1fluoroethane, (continue)
	05-Oct-18	A-Dimethyl phosphoroustrifluoride and bromine penta fluoride B-furans
	06-Oct-18	A-F19 spectra continued.
	05.0 . 10	B-Helptachlor
	07-Oct-18	Sunday
13	08-Oct-18	P31 spectra of HPF2, HPO(OH)2, H2PO(OH) and cis Pt(Pet3)2Cl2
	09-Oct-18	P31 spectra continued.
	10-Oct-18	Maharaja Agrasen Jayanti
	11-Oct-18	Problem based questions.
	12-Oct-18	A-Test and discussion B-Helptachlor continued
	13-Oct-18	A-Pseudo contact shift, diamagnetic complexes B-Hexachiorobenzene

	14-Oct-18	Sunday
14	15-Oct-18	Spectra of free radicals, lanthanide shift reagent
	16-Oct-18	Spectra of lanthanide reagent continued.
	17-Oct-18	Magnetic susceptibility measurement. Solid state NMR-wide line NMR
	18-Oct-18	Dussehra
	19-Oct-18	A-Discussions of problems and revision
	20.0 + 10	B-hexachlorobenzene continued
	20-Oct-18	A-Test and discussion B-Mirex
	21-Oct-18	Sunday
15	22-Oct-18	Magnetic angle spinning and applications magnetic resonance imaging.
	23-Oct-18	Applications continued
	24-Oct-18	Maharishi Valmiki's Birthday
	25-Oct-18	Nuclear quadrupole resonance spectroscopy: introduction and nuclear quadropole moment
	26-Oct-18	A-Electric field gradient and asymmetry parameter. Nuclear quadrupole transitions: axillary symmetric B-Mirex continued
	27-Oct-18	A-Nuclear quadrupole continued.
	28-Oct-18	B-polychlorinated biphenyls Sunday
16	29-Oct-18	Test and discussion.
	30-Oct-18	Nuclear quadrupole Continued and discussion of problems
	31-Oct-18	Nuclear quadrupole transitions :non-symmetric molecules. Effect of an external magnetic field.
	01-Nov-18	Haryana Day
	02-Nov-18	A-Application: (i)chemical bonding and structure (ii)solid state effects(iii) hydrogen bonding B-polychlorinated biphenyls continued
	03-Nov-18	A-Experimental aspects B-Toxaphene
	04-Nov-18	Sunday
17	05-Nov-18	Revision and test
	06 NOV TO 13 NOV	Diwali Break
	14 Nov To 21 Nov	REVISION+MOCK TEST