LESSON PLANS

B.SC(Non-Med/Med/Biotech/M.Sc(Maths)/M.Sc.(Chem)

SESSION

(Jan-May2024)

K.L.MEHTA DAYANAND COLLEGE FOR WOMEN
Session 2023-2024

Name of Professor : Dr. Meenu Dua **Class : B.Sc Medical/Non-Med III Year** **Section : A&B Subject: Physical Chemistry** **Paper code : CH603**	
Day 1	Introduction of Electronic Spectrum
Day 2	Concept of potential energy curves for bonding and antibonding molecular orbitals
Day 3	qualitative description of selection rules and Franck- Condon principle
Day 4	Qualitative description of sigma and pie and n molecular orbital (MO) energy level.
Day 5	Qualitative description of sigma and pie and n molecular orbital (MO) their energy level and respective transitions
Day 6	Introduction of Photochemistry
Day 7	Interaction of radiation with matter, difference between thermal and photochemical processes
Day 8	Laws of photochemistry: Grotthus-Drapper law & StarkEinstein law
Day 9	Test
Day 10	Jablonski diagram depiciting various processes occurring in the exicted state
Day 11	Qualitative description of fluorescence, phosphorescence & non-radiative processes.
Day 12	Quantum yield, photosensitized reactions-energy transfer processes
Day 13	Introduction of Dilute Solutions and Colligative Properties
Day 14	Ideal and non-ideal solutions, methods of expressing concentrations of solutions
Day 15	Define activity and activity coefficient. Dilute solution,Colligative properties.
Day 16	Raolut's law, relative lowering of vapour pressure.

Day 17	molelcular weight determination, Osmosis law of osmotic pressure and its measurement, determination of molecular weight from osmotic pressure.
Day 18	Assignment
Day 19	Elevation of boiling point and depression of freezing point
Day 20	Thermodynamic derivation of relation between molecular weight and elevation in boiling point
Day 21	Thermodynamic derivation of relation between molecular weight and depression in freezing point.
Day 22	Experimental methods for determining various colligative properties.
Day 23	Abnormal molar mass, degree of dissociation and association of solutes.& Assignment.
Day 24	Introduction of Phase Equillibrium & Statement and meaning of the terms – phase component and degree of freedom.
Day 25	thermodynamic derivation of Gibbs phase rule& phase equilibria of one component system –Example – water system
Day 26	TEST
Day 27	phase equilibria of one component system -Sulpher systems
Day 28	Phase equilibria of two component systems solid-liquid equilibria.
Day 29	simple eutectic Example of Pb-Ag system & desilerisation of lead.
Day 30	Discussion of previous year question paper.
Day 31	Revision of unit-1,2
Day 32	Doubt class
Day 33	Revision of unit-3,4
Day 34	Doubt class

Name of the professor: Dr. Meenu Dua

Class And Section: B.Sc. 4th sem (Med.)

Subject: Physical Chemistry ,Paper code : CH403

Day 1	**Unit 1 - Thermodynamics-III** Second law of thermodynamics, need for the law, different statements of the law, Carnot's cycles and its efficiency
Day 2	Carnot's theorem, Thermodynamics scale of temperature.
Day 3	Concept of entropy – entropy as a state function, entropy as a function of V & T, entropy as a function of P & T
Day 4	Entropy change in physical change, entropy as a criteria of spontaneity and equilibrium.
Day 5	Entropy change in ideal gases and mixing of gases.
Day 6	Revision
Day 7	Test / Assignment
Day 8	**Unit 2 - Thermodynamics-IV** Third law of thermodynamics: Nernst heat theorem
Day 9	Statement of concept of residual entropy, evaluation of absolute entropy from heat capacity data
Day 10	Gibbs and Helmholtz functions; Gibbs function (G) and Helmholtz function (A) as thermodynamic quantities
Day 11	A & G as criteria for thermodynamic equilibrium and spontaneity, their advantage over entropy change.
Day 12	Variation of G and A with P, V and T.
Day 13	Revision
Day 14	Test / Assignment
Day 15	**Unit 3 - Electrochemistry-III** Electrolytic and Galvanic cells – reversible & Irreversible cells, conventional representation of electrochemical cells
Day 16	EMF of cell and its measurement, Weston standard cell, activity and activity coefficients.
Day 17	Calculation of thermodynamic quantities of cell reaction (G, H & K).
Day 18	Types of reversible electrodes – metal-metal, ion gas electrode, metal – insoluble salt- anion and redox electrodes.
Day 19	Electrode reactions, Nernst equations, derivation of cell EMF and single electrode potential.
Day 20	Standard Hydrogen electrode, reference electrodes
Day 21	Standard electrodes potential, sign conventions, electrochemical series and its applications.
Day 22	Revision
Day 23	Test / Assignment
Day 24	**Unit 4 - Electrochemistry-IV** Concentration cells with and without transference, liquid junction potential
Day 25	Application of EMF measurement i.e. valency of ions, solubility product activity coefficient

Day 26	Potentiometric titration (acid- base and redox)
Day 27	Determination of pH using Hydrogen electrode, Quinhydrone electrode and glass electrode by potentiometric methods.
Day 28	Revision
Day 29	Doubt Class
Day 30	Test / Assignment

Name of Professor : Dr. Meenu Dua

Class :B.Sc Non Medical III Year

Subject: Physical Chemistry

Day 1	M	Introduction of Electronic Spectrum
Day 2	T	Concept of potential energy curves for bonding and antibonding molecular orbitals
Day 3	W	qualitative description of selection rules and Franck- Condon principle
Day 4	TH	Qualitative description of sigma and pie and n molecular orbital (MO) energy level.
Day 5	F	Qualitative description of sigma and pie and n molecular orbital (MO) their energy level and respective transitions
Day 6	S	Introduction of Photochemistry
Day 7	M	Interaction of radiation with matter, difference between thermal and photochemical processes
Day 8	T	Laws of photochemistry: Grotthus-Drapper law & StarkEinstein law
Day 9	W	Test
Day 10	TH	Jablonski diagram depiciting various processes occurring in the exicted state
Day 11	F	Qualitative description of fluorescence, phosphorescence & non-radiative processes.
Day 12	S	Quantum yield, photosensitized reactions-energy transfer processes
Day 13	M	Introduction of Dilute Solutions and Colligative Properties
Day 14	T	Ideal and non-ideal solutions, methods of expressing concentrations of solutions
Day 15	W	Define activity and activity coefficient. Dilute solution,Colligative properties.
Day 16	TH	Raolut's law, relative lowering of vapour pressure.
Day 17	F	molelcular weight determination, Osmosis law of osmotic pressure and its

		measurement, determination of molecular weight from osmotic pressure.
Day 18	S	Assignment
Day 19	M	Elevation of boiling point and depression of freezing point
Day 20	T	Thermodynamic derivation of relation between molecular weight and elevation in boiling point
Day 21	W	Thermodynamic derivation of relation between molecular weight and depression in freezing point.
Day 22	TH	Experimental methods for determining various colligative properties.
Day 23	F	Abnormal molar mass, degree of dissociation and association of solutes.& Assignment.
Day 24	S	Introduction of Phase Equillibrium & Statement and meaning of the terms – phase component and degree of freedom.
Day 25	M	thermodynamic derivation of Gibbs phase rule& phase equilibria of one component system –Example – water system
Day 26	T	TEST
Day 27	W	phase equilibria of one component system -Sulpher systems
Day 28	TH	Phase equilibria of two component systems solid-liquid equilibria.
Day 29	F	simple eutectic Example of Pb-Ag system & desilerisation of lead.
Day 30	S	Discussion of previous year question paper.
Day 31	M	Revision of unit-1,2
Day 32	T	Doubt class
Day 33	W	Revision of unit-3,4
Day 34	TH	Doubt class
Day 35	F	Revision

Name of the professor:Dr. Beena Sethi **ClassAndSection:B.Sc. 2nd sem** **Med/Non.Med** **Subject:Inorganic Chemistry,CH-104**	
Day 1	Introduction about syllabus
Day 2	Definition of Hydrogen Bond, types
Day 3	Effects Of hydrogen Bonds
Day 4	Applications Hydrogen Bond
Day 5	Types of van der waals forces
Day 6	Metallic Bonds
Day 7	Semiconductors, Types
Day 8	Applications Of Semiconductors
Day 9	Test
Day 10	Study Of elements, Diagonal relationships
Day 11	Features of hybrids
Day 12	Solvent and complexation tendencies in biosystems
Day 13	Assignment
Day 14	Chemical properties of noble gases, chemistry of xenon
Day 15	Structure and bonding of fluorides, oxides,& oxyfluorides of xenon
Day 16	Properties of p-block elements
Day 17	Properties of p-block elements
Day 18	Diagonal relationship
Day 19	Methods of preparation
Day 20	Test
Day 21	Diborane-properties and structure
Day 22	Borazine- chemical properties and structure
Day 23	Trends in Fewis acid character
Day 24	Structure of aluminium Chloride.
Day 25	Catenation.p pii and d pii bond, carbides
Day 26	Silicates-prepration, properties and uses
Day 27	Structure of oxides of N,P
Day 28	Structure of nitrogen and phosphorus
Day 29	Structure of white, yellow and red phosphorous
Day 30	Oxyacids of sulphur- structures of acidic strength
Day 31	Structure, properties and uses of H2O2
Day 32	Peoperties of helogens, types and properties of interhalogens
Day 33	Structure and comparison of acid srtrength.
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Name of the professor: Dr. Beena Sethi

Class And Section: B.Sc (NON.MED)Second year

Subject: Inorganic Chemistry

Day 1	Introduction of F Block elements
Day 2	Electronic structure of Lanthanide
Day 3	Oxidation states and Magnetic properties
Day 4	Complex formation and colour of compounds
Day 5	Ionic radii and lanthanide contraction
Day 6	Occurence n separation of lanthanides
Day 7	Lanthanide Compounds
Day 8	Test of Unit-1
Day 9	Introduction to actinides
Day 10	General characteristics of actinides
Day 11	Chemistry of separation of Np,Pu and Am from Uranium
Day 12	Transuranic elements
Day 13	Comparison of properties of lanthanides and actinides with transition elements.
Day 14	Test of Unit-2
Day 15	Assignment

Day 16	Theory of Qualitative and Quantitative Analysis
Day 17	Introduction to Basic Radical and Acidic Radical
Day 18	Discussion about Group 1,2 Preliminary test
Day 19	Common ion effect
Day 20	Solubility product
Day 21	Group radical and group reagents
Day 22	Oral test
Day 23	Chemistry of identification of acid radicals in combination
Day 24	Chemistry of interference of acid radicals
Day 25	Discussion of group 1Basic radical
Day 26	Group2A
Day 27	Group 2B
Day 28	Group 3
Day 29	Group 4
Day 30	Group 4
Day 31	Group 5
Day 32	Group 6
Day 33	Oral test of all groups
Day 34	Interfering acid radical
Day 35	Group1Confirmatory test
Day 36	Group 2 Confirmatory test
Day 37	Group 3 Confirmatory test
Day 38	Theory of precipitation,post precipitation
Day 39	Purification of precipitates
Day 40	Test of Unit 3

Day 41	Revision
Day 42	Doubt class
Day 43	Revision
Day 44	Revision
Day 45	Revision
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Name of the professor:Dr. Shveta Arya

Class And Section: Bsc (Medical) 6
Semester Section A and B

Subject: Developmental Biology (6.2)
Paper code : 6.2

Day 1	Discussion regarding books and introduction to syllabus
Day 2	Historical perspective of developmental biology
Day 3	Aim and scope of developmental biology
Day 4	Spermatogenesis: Site & stages of spermatogenesis
Day 5	Stages of spermatogenesis
Day 6	Generalized structure of mammalian sperm
Day 7	Stages of Oogenesis
Day 8	Test of Spermatogenesis
Day 9	Vitellogenesis & Generalized structure of mammalian ovum
Day 10	Hormonal Control of Spermatogenesis & Oogenesis
Day 11	Test of Historical perspective,aim and scope of development biology
Day 12	Types & significance of Fertilization
Day 13	Process of Fertilization
Day 14	Parthenogenesis: Types & Significance
Day 15	Different types of eggs on the basis of amount & distribution of yolk
Day 16	Patterns of cleavage in invertebrates and vertebrates
Day 17	Assignment on Parthenogenesis
Day 18	Process of blastulation in invertebrates
Day 19	Process of blastulation in vertebrates
Day 20	Fate – map construction in frog
Day 21	Fate – map construction in chick
Day 22	Test of Fertilization and different types of eggs
Day 23	Gastrulation in invertebrates
Day 24	Assignment on spermatogenesis
Day 25	Gastrulation in vertebrates
Day 26	Gastrulation & formation of three germinal layers in frog
Day 27	Continued the same topic
Day 28	Gastrulation & formation of three germinal layers in chick
Day 29	Continued the same topic
Day 30	Test of Gastrulation
Day 31	Extra embryonic membranes: structure & significance in birds
Day 32	Extra embryonic membranes: structure & significance in mammals
Day 33	Elementary knowledge of primary organizers
Day 34	Continued the same topic
Day 35	Concepts of competence , determination and differentiation
Day 36	Continued the same topic
Day 37	Continued the same topic
Day 38	Test of Elementary knowledge of primary organizers

Day 39	Concept of regeneration
Day 40	Continued the same topic
Day 41	Revision
Day 42	Revision
Day 43	Revision
Day 44	Revision
Day 45	Revision
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Name of the Professor: Dr. Shveta Arya **Class And Section:BSc medical 6th sem And A&B** **Subject: Entomology** **Paper code : 6.1**	
Day 1	Introduction about the book and discussion the topic.
Day 2	Study of important insect pests of crop Sugarcane leaf – hopper.
Day 3	Sugarcane leaf-hopper systematic position and habits .
Day 4	Sugarcane leaf hopper nature of damage caused.
Day 5	Sugarcane leaf-hopper life cycle and control.
Day 6	Study of Sugarcane white fly.
Day 7	Study of sugarcane top borer.
Day 8	Study of sugarcane root borer.
Day 9	Study of Gurdaspur borer pest.
Day 10	Revision
Day 11	Pink bollworm systematic position and habits and nature of damage caused.
Day 12	Life cycle and control of pink bollworm.
Day 13	Study of Red cotton bug .
Day 14	Study of Cotton grey weevil.
Day 15	Study of Cotton jassid.
Day 16	Test of unit -1
Day 17	Study of Wheat stem borer systematic position habits and nature of damage caused.
Day 18	Life cycle and control of wheat stem borer.
Day 19	Study of paddy pest Gundhi bug with their systematic position, habits And nature of damage caused.
Day 20	Life cycle and control of Gundhi bug.
Day 21	Study of Rice grasshopper.

Day 22	Study of Rice stem borer.
Day 23	Study of Rice hispa.
Day 24	Revision and test of unit -2.
Day 25	Study of Red pumpkin beetle systematic position and habits and nature of damage caused.
Day 26	Life cycle and control of Red pumpkin beetle.
Day 27	Study of pumpkin fruitfly.
Day 28	Study of vegetable mite
Day 29	Study of hadda beetle.
Day 30	Revision
Day 31	Study of wheat weevil systematic position, habits and nature of damage caused.
Day 32	Life cycle and control of wheat weevil.
Day 33	Study of pulse bettle.
Day 34	Study of Rice weevil.
Day 35	Study of Rust red flour beetles.
Day 36	Study of Lesser grain borer.
Day 37	Study of Grain and flour moth
Day 38	Revision
Day 39	Test of unit -3.
Day 40	Study of Insect control.
Day 41	Study of Chemical control.
Day 42	Study of Integrated pest management.
Day 43	Study of Important bird and rodent pests of agriculture and their management.
Day 44	Revision
Day 45	Test unit -4
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Name of the professor: Ms. Vandana Kumari

Class : M.Sc. (Mathematics) 4th Sem

Subject: Inner Product space and measure theory

Day 1	Introduction to the subject
Day 2	Why we need Inner product space
Day 3	SHAHEEDI DIWAS
Day 4	Some law and properties of IPS
Day 5	Schwarz inequality
Day 6	Hilbert spaces
Day 7	Examples of Inner product space
Day 8	Exercise questions
Day 9	Convex sets
Day 10	Orthogonal sets
Day 11	Some theorem on orthogonality
Day 12	Orthonormal sets
Day 13	continued …. Orthonormal sets
Day 14	Projection theorem
Day 15	Bessel's inequality
Day 16	Lp space
Day 17	Gram schmidt orthogonalization process
Day 18	The conjugate space
Day 19	Riesz Representation theorem
Day 20	The adjoint of an operator

Day 21	Self adjoint operator
Day 22	Properties of self adjoint
Day 23	Positive operator
Day 24	Normal operator
Day 25	Properties of normal operator
Day 26	Unitary operator
Day 27	Projection
Day 28	Perpendicular projection
Day 29	Reduction of an operator
Day 30	Reflexivity of Hilbert spaces
Day 31	Every Hilbert space is reflexive
Day 32	Exercise question
Day 33	Metrically equivalent operators
Day 34	Some theorems
Day 35	Theorem on normal operator
Day 36	Doubt class
Day 37	Test
Day 38	Spectral theorem
Day 39	Convex function
Day 40	Measure space
Day 41	Signed measure
Day 42	Set function
Day 43	Positive set
Day 44	Hahn lemma

Day 45	Hahn Decomposition theorem
Day 46	Positive and negative Decomposition
Day 47	Jordan Decomposition
Day 48	Radon Nikodym theorem
Day 49	Doubt class
Day 50	Test
Day 51	Lebesgue Decomposition theorem
Day 52	Lebesgue Stieltjes Integral
Day 53	Baire measure
Day 54	Continuous function with compact support
Day 55	Regularity of measure
Day 56	Riesz Markov theorem
Day 57	Fubini theorem
Day 58	Doubt class
Day 59	Test
Day 60	Quasi measure
Day 61	Revision of chapter 1
Day 62	Revision of chapter 1
Day 63	Revision of chapter 1
Day 64	Previous year question paper
Day 65	Revision of chapter 2
Day 66	Revision of chapter 2
Day 67	Revision of chapter 2
Day 68	Doubt class

Day 69	Test
Day 70	Previous year question discussion
Day 71	Previous year question
Day 72	Revision of chapter 3
Day 73	Revision of chapter 3
Day 74	Revision of chapter 3
Day 75	Doubt class
Day 76	Previous year question
Day 77	Test
Day 78	Revision of chapter 4
Day 79	Reavision of chapter 4
Day 80	Revision of chapter 4
Day 81	Doubt class
Day 82	Test
Day 83	Previous year question discussion of unit-1
Day 84	Doubt class
Day 85	Previous year question discussion of unit- 2
Day 86	Doubt class
Day 87	Previous year question discussion of unit- 3
Day 88	Doubt class
Day 89	Previous year question discussion of unit-4
Day 90	Doubt class

Name of the Professor: Ms. Renu Pandey

Class And Section: B.sc. Biotech(2nd sem)

Subject: Microbiology (BT 202)

Day 1	Unit I Introduction of syllabus
Day 2	No class
Day 3	History and Evolution of Microbiology
Day 4	No class
Day 5	History and Evolution of Microbiology
Day 6	Microbial taxonomy
Day 7	criteria used including molecular approaches
Day 8	No class
Day 9	criteria used including molecular approaches
Day 10	No class
Day 11	Microbial phylogeny
Day 12	Assignment
Day 13	current classification of bacteria
Day 14	No class
Day 15	Distribution and characterization Prokaryotic and Eukaryotic cells
Day 16	No class
Day 17	Distribution and characterization Prokaryotic and Eukaryotic cells
Day 18	Morphology and cell structure
Day 19	Major groups of micro- organisms: bacteria
Day 20	No class
Day 21	Major groups of micro- organisms: bacteria
Day 22	No class
Day 23	Major groups of micro- organisms: algae, fungi
Day 24	Major groups of micro- organisms: algae, fungi
Day 25	Nutritional categories of micro-organisms
Day 26	No class
Day 27	Nutritional categories of micro-organisms
Day 28	No class
Day 29	Test
Day 30	Methods of isolation
Day 31	Purification
Day 32	No class
Day 33	Preservation
Day 34	No class
Day 35	Microbial growth: Growth curve
Day 36	Microbial growth: synchronous batch
Day 37	continuous culture
Day 38	No class
Day 39	Test

Day 40	No class
Day 41	Measurement of growth and factors affecting growth of bacteria
Day 42	Measurement of growth and factors affecting growth of bacteria
Day 43	Microbial Metabolism: Metabolic pathways
Day 44	No class
Day 45	Microbial Metabolism: amphi-catabolic
Day 46	No class
Day 47	catabolic and biosynthetic pathways
Day 48	Bacterial Reproduction: Transformation
Day 49	Bacterial Reproduction: Transduction
Day 50	Bacterial Reproduction: conjugation
Day 51	Endospores and sporulation in bacteria
Day 52	No class
Day 53	Endospores and sporulation in bacteria
Day 54	Test
Day 55	Endospores and sporulation in bacteria
Day 56	No class
Day 57	Revision
Day 58	No class
Day 59	Control of Microorganisms: By physical Agents
Day 60	chemical Agents
Day 61	Chemo- therapeutic Agents
Day 62	No class
Day 63	Assignment
Day 64	No class
Day 65	Water Microbiology:
Day 66	Test
Day 67	Bacterial polluatnts of water,
Day 68	No class
Day 69	Coliforms and non- coliforms.
Day 70	No class
Day 71	Sewage composition and its disposal.
Day 72	Sewage composition and its disposal.
Day 73	membrane receptors for extra cellular matrix
Day 74	No class
Day 75	Food Microbiology: Important microorganism in food
Day 76	No class
Day 77	Important microorganism in food
Day 78	Major food born infections and intoxications
Day 79	Preservation of various types of foods. Fermented Foods
Day 80	No class
Day 81	Assignment discussion
Day 82	No class
Day 83	Major food born infections and intoxications
Day 84	Bio engineering of microorganism for Industrial purposes,

Day 85	strial uses of bacteria, Yeasts, moulds
Day 86	Revision unit I
Day 87	Revision unit II
Day 88	No class
Day 89	Revision unit III
Day 90	Revision unit IV

Name of Professor: Ms. Renu Pandey

Class: B.Sc. Biotech IInd year(4thsem)

Subject: Animal Diversity II (BT 401)

Day 1	NO CLASS
Day 2	Introduction
Day 3	NO CLASS
Day 4	Proto-chordates: Outline
Day 5	classification
Day 6	General features and characters of Herdmania
Day 7	NO CLASS
Day 8	General features and important characters of Branchiostoma
Day 9	NO CLASS
Day 10	Origin of Chordates
Day 11	assignment 1
Day 12	Migration in Pisces
Day 13	NO CLASS
Day 14	pH meter
Day 15	NO CLASS
Day 16	Amphibia: Classification
Day 17	Amphibia: origin
Day 18	Test
Day 19	NO CLASS
Day 20	Amphibia: Parental care
Day 21	NO CLASS
Day 22	Amphibia: Paedogenesis
Day 23	Reptelia: Classification
Day 24	Presentation
Day 25	NO CLASS
Day 26	Reptilia: Origin
Day 27	NO CLASS

Day 28	Aves: Classification
Day 29	Aves: flight-adaptations
Day 30	Aves: flight-adaptations
Day 31	NO CLASS
Day 32	Test
Day 33	NO CLASS
Day 34	Aves: migration
Day 35	Amphibia: Parental care
Day 36	Amphibia: Parental care
Day 37	NO CLASS
Day 38	Assignment
Day 39	NO CLASS
Day 40	Revision
Day 41	Mammalia: Classification
Day 42	Presentation
Day 43	NO CLASS
Day 44	Mammalia: Origin
Day 45	NO CLASS
Day 46	Mammalia: dentition
Day 47	Mammalia: Origin
Day 48	Assignment
Day 49	NO CLASS
Day 50	Mammalia: general features
Day 51	NO CLASS
Day 52	Comparative anatomy of vertebrates: Integumentary system
Day 53	Comparative anatomy of vertebrates: Integumentary system
Day 54	Assignment
Day 55	NO CLASS
Day 56	Comparative anatomy of vertebrates: Digestive system
Day 57	NO CLASS
Day 58	Comparative anatomy of vertebrates: Digestive system
Day 59	Comparative anatomy of vertebrates: Digestive system
Day 60	Test
Day 61	NO CLASS
Day 62	Comparative anatomy of vertebrates: Respiratory system
Day 63	NO CLASS
Day 64	Comparative anatomy of vertebrates: Respiratory system
Day 65	Comparative anatomy of vertebrates: Respiratory system
Day 66	Test
Day 67	NO CLASS
Day 68	Comparative Anatomy of vertebrates –Heart
Day 69	NO CLASS
Day 70	Comparative Anatomy of vertebrates –Heart
Day 71	comparative Anatomy of vertebrate's Aortic arches
Day 72	Comparative Anatomy of vertebrates – Kidney
Day 73	NO CLASS

Day 74	Comparative Anatomy of vertebrates – Kidney
Day 75	NO CLASS
Day 76	Comparative Anatomy of vertebrates – urino-genital system
Day 77	Comparative Anatomy of vertebrates – urino-genital system
Day 78	Comparative Anatomy of vertebrates –Brain
Day 79	NO CLASS
Day 80	Assignment
Day 81	NO CLASS
Day 82	Comparative Anatomy of vertebrates –Ear, Eye
Day 83	Comparative Anatomy of vertebrates –Ear, Eye
Day 84	Autonomic nervous system
Day 85	NO CLASS
Day 86	Revision unit I
Day 87	NO CLASS
Day 88	Revision unit II
Day 89	Revision unit III
Day 90	Revision unit IV

Name of the professor: Ms. Renu Pandey

Class And Section: B.Sc. Biotechnology IIIrd year (6th Sem)

Subject: IPR Entrepreneurship, Bioethics & Biosafety (BT 601)

Day 1	Introduction to the syllabus
Day 2	No Class
Day 3	Introduction of IPR
Day 4	No Class
Day 5	No Class
Day 6	World trade organization
Day 7	WIPO

Day 8	Trade Mark
Day 9	No Class
Day 10	Trade Design
Day 11	No Class
Day 12	No Class
Day 13	Trade Design
Day 14	Copyright
Day 15	Assignment
Day 16	No Class
Day 17	GAAt
Day 18	No Class
Day 19	No Class
Day 20	Industrial Property Right
Day 21	Test
Day 22	WTO and related intellectual property provisions
Day 23	No Class
Day 24	WTO and related intellectual property provisions
Day 25	No Class
Day 26	No Class
Day 27	Legal protection in research
Day 28	Revision
Day 29	Legal protection in design and development
Day 30	No Class
Day 31	Legal protection in design and development
Day 32	No Class

Day 33	No Class
Day 34	Assignment
Day 35	Patenting in Biotechnology
Day 36	Patenting in Biotechnology
Day 37	No Class
Day 38	ethical and depository considerations
Day 39	No Class
Day 40	No Class
Day 41	ethical and depository considerations
Day 42	Entrepreneurship, Introduction
Day 43	selection of a product
Day 44	Release of product
Day 45	Basic regulation of excise
Day 46	No Class
Day 47	Demand for a given product
Day 48	No Class
Day 49	No Class
Day 50	Test
Day 51	Demand for a given product
Day 52	Feasibility of its production under constraints of raw material
Day 53	No Class
Day 54	Feasibility of its production under constraints of raw material
Day 55	No Class
Day 56	No Class
Day 57	Presentation

Day 58	Energy input and financial situation
Day 59	Energy input and financial situation
Day 60	No Class
Day 61	Energy constraints
Day 62	No Class
Day 63	No Class
Day 64	Export potential
Day 65	Test
Day 66	Revision
Day 67	No Class
Day 68	Bioethics-necessity
Day 69	No Class
Day 70	No Class
Day 71	Bioethics- paradigms
Day 72	Presentation
Day 73	Health hazards concerning biotechnology
Day 74	No Class
Day 75	Bioethical Issues
Day 76	No Class
Day 77	No Class
Day 78	Introduction to contaminant levels
Day 79	Biosafety Levels
Day 80	Introduction to GLP
Day 81	No Class
Day 82	Introduction to GMP

Day 83	No Class
Day 84	No Class
Day 85	Biosafety issues (discussion)
Day 86	Revision unit I
Day 87	Revision unit II
Day 88	Revision unit III
Day 89	No Class
Day 90	Revision unit IV

Name of Professor : Dr. Purnima Verma, Dr. Annu Kalra, Ms. Sonia Bisht

Class And Section: M.Sc. Chemistry 2nd Semester
Subject: Environmental Chemistry- I, **16CHE22O1**

Day 1	M	Atmosphere
Day 2	T	Environmental segments
Day 3	W	Composition of the atmosphere
Day 4	Th	
Day 5	F	
Day 6	S	
Day 7	M	Earth's radiation balance
Day 8	T	Particulates, ions, radicals and their formation, chemical and photochemical reactions in the atmosphere
Day 9	W	Particulates, ions, radicals and their formation, chemical and photochemical reactions in the atmosphere
Day 10	Th	
Day 11	F	
Day 12	S	
Day 13	M	Air pollution
Day 14	T	Oxides of c,n,s and their effects
Day 15	W	Oxides of c,n,s and their effects
Day 16	Th	
Day 17	F	

Day 18	S	
Day 19	M	Acid-rain
Day 20	T	Smog formation,
Day 21	W	Green house effects (global warming)
Day 22	Th	
Day 23	F	
Day 24	S	
Day 25	M	Analytical methods for measuring air pollutants
Day 26	T	Continuous monitoring instruments
Day 27	W	Test of unit - i
Day 28	Th	
Day 29	F	
Day 30	S	
Day 31	M	Hydrsphere: chemical composition of water bodies-lakes
Day 32	T	Chemical composition of streams rivers
Day 33	W	Chemical composition of sea
Day 34	Th	
Day 35	F	
Day 36	S	
Day 37	M	Hydrological cycle
Day 38	T	Complexation in natural and waste water
Day 39	W	Microbially mediated redox reactions
Day 40	Th	
Day 41	F	
Day 42	S	
Day 43	M	Water pollution-inorganic
Day 44	T	Organic pesticides,
Day 45	W	Industrial and radioactive materials
Day 46	Th	
Day 47	F	
Day 48	S	
Day 49	M	Oil spills
Day 50	T	Oil pollutants eutrophication
Day 51	W	Acid-mine drainage,
Day 52	Th	
Day 53	F	
Day 54	S	
Day 55	M	Waste water treatment
Day 56	T	Domestic waste water
Day 57	W	Aerobic and (anaerobic treatment)
Day 58	Th	
Day 59	F	
Day 60	S	
Day 61	M	Industrial waste water treatment
Day 62	T	Noise pollution
Day 63	W	Sources, effect on human health

Day 64	Th	
Day 65	F	
Day 66	S	
Day 67	M	Mitigation and control
Day 68	T	Test of unit-ii
Day 69	W	Assignment
Day 70	Th	
Day 71	F	
Day 72	S	
Day 73	M	Environmental toxicology
Day 74	T	Chemical solutions to environmental problems
Day 75	W	Sewozo disaster
Day 76	Th	
Day 77	F	
Day 78	S	
Day 79	M	Biodegradability, principles of decomposition
Day 80	T	Better industrial processes
Day 81	W	Bhopal gas tragedy
Day 82	Th	
Day 83	F	
Day 84	S	
Day 85	M	Chernobyl disaster
Day 86	T	Three mile island disaster
Day 87	W	Test of unit-iii
Day 88	Th	
Day 89	F	
Day 90	S	

Name of the professor: DR. PURNIMA VERMA

Class And Section: M.Sc 2 SEM

Subject: INORGANIC CHEMISTRY, 16CHE22C1

Day 1	**SECTION-A** Basic of CFT
Day 2	Limitation of Crystal field theory & General introduction of CFT

Day 3	Molecular orbital theory
Day 4	Molecular orbital theory (Octahedral) part-1
Day 5	Molecular orbital theory (Octahedral) part-2
Day 6	DISCUSSION
Day 7	Molecular orbital theory (Tetrahedral) part-1
Day 8	Molecular orbital theory (Tetrahedral) part-2
Day 9	DISCUSSION
Day 10	Molecular orbital theory (Square planner)) part-1
Day 11	Molecular orbital theory (Square planner)) part-2
Day 12	DISCUSSION
Day 13	Pi –Bonding & MOT
Day 14	**Revision of Limitation of Crystal field theory & General introduction of CFT & Molecular orbital theory**
Day 15	**Revision of Molecular orbital theory (Octahedral) & (Tetrahedral)**
Day 16	**Revision of Molecular orbital theory (Square planner) & Pi Bonding**
Day 17	**Doubt session & Assignment of Section A MOT**
Day 18	**UNIT TEST -1**
Day 19	Important question discussion
Day 20	Important question discussion
Day 21	SECTION-D Metal Carbonyls
Day 22	Structure and bonding with examples
Day 23	Vibrational spectra of metal carbonyl for bonding
Day 24	DISCUSSION
Day 25	Structure elucidation of metal carbonyl
Day 26	Important reaction of metal carbonyls

Day 27	DISCUSSION
Day 28	Preparation , bonding of metal carbonyl
Day 29	Structure & important reactions of metal transition metal nitrosyl
Day 30	DISCUSSION
Day 31	Tertiary phosphine as ligands
Day 32	Di Nitrogen & Di oxygen
Day 33	**Revision of Metal Carbonyls & Structure and bonding with examples**
Day 34	**Revision of Vibrational spectra of metal carbonyl for bonding & Structure elucidation of metal carbonyl**
Day 35	**Revision of Important reaction of metal carbonyls & Preparation , bonding of metal carbonyl**
Day 36	**Revision of Structure & important reactions of metal transition metal nitrosyl & Tertiary phosphine as ligands**
Day 37	**Doubt session & Assignment of SECTION D Di Nitrogen & Di oxygen**
Day 38	**UNIT TEST -2**
Day 39	**SECTION C PART-1** Structure & Bonding in Higher Boranes
Day 40	Wade's & Mingo's rule
Day 41	Carboranes & Metal carbonyl cluster
Day 42	Low nuclearity carbonyl cluster & Total electron count (TEC)
Day 43	**DISCUSSION**
Day 44	**PART-2** Elementary theory of magneto - chemistry
Day 45	Guoy's method for determination of magnetic susceptibility
Day 46	DISCUSSION
Day 47	calculation of magnetic moments
Day 48	magnetic properties of free ions
Day 49	DISCUSSION

Day 50	orbital contribution
Day 51	effect of ligand-field
Day 52	DISCUSSION
Day 53	application of magneto-chemistry in structure determination
Day 54	magnetic exchange coupling
Day 55	spin state cross over
Day 56	**Revision of Elementary theory of magneto – chemistry & spin state cross over**
Day 57	**Revision of Guoy's method for determination of magnetic susceptibility & calculation of magnetic moments**
Day 58	**Revision of magnetic properties of free ions & orbital contribution, effect of ligand-field**
Day 59	**Revision of application of magneto-chemistry in structure determination & magnetic exchange coupling**
Day 60	**Doubt session & Assignment of SECTION C application of magneto-chemistry in structure determination**
Day 61	**UNIT TEST -3**
Day 62	**SECTION B** Spectroscopic ground states
Day 63	correlation and spin-orbit coupling in free ions for Ist series of transition
	metals
Day 64	DISCUSSION
Day 65	Orgel and Tanabe-Sugano diagrams for transition metal complexes (d1 – d9 states)
Day 66	calculation of Dq
Day 67	DISCUSSION
Day 68	B and β parameters
Day 69	effect of distortion on the d-orbital energy levels.

Day 70	DISCUSSION
Day 71	Structural evidence from electronic spectrum
Day 72	John-Tellar effect
Day 73	DISCUSSION
Day 74	Spectrochemical and nephalauxetic series
Day 75	charge transfer spectra
Day 76	electronic spectra of molecular addition compounds.
Day 77	**Revision of Spectroscopic ground states**
Day 78	**Revision of correlation and spin-orbit coupling in free ions for Ist series of transition metals**
Day 79	**Revision of Orgel and Tanabe-Sugano diagrams for transition metal complexes (d1 – d9 states)**
Day 80	**Revision of calculation of Dq & B and β parameters**
Day 81	**Revision of effect of distortion on the d-orbital energy levels & John-Tellar effect**
Day 82	**Revision of Structural evidence from electronic spectrum & Spectrochemical and nephalauxetic series**
Day 83	**Revision of charge transfer spectra & electronic spectra of molecular**
	addition compounds
Day 84	**Doubt session & Assignment of SECTION B Structural evidence from electronic spectrum**
Day 85	**MOCK TEST – INORGANIC CHEMISTRY**
Day 86	**MOCK TEST – ENVIRONMENT SCIENCE**
Day 87	**REVISION SECTION A**
Day 88	**REVISION SECTION D**
Day 89	**REVISION SECTION C**
Day 90	**REVISION SECTION B**

Name of the professor: Dr. Annu Kalra **Class And Section: M.Sc (F)Chemistry** **Subject: Inorganic Special-IV (Organotransition metal Chemistry), 17CHE24GA1**	
Day 1	Introduction and Classification of organometallic compounds
Day 2	Covalent organometallic compounds
Day 3	Ionic organometallic compounds
Day 4	Electron deficient organometallic compounds
Day 5	Cluster organometallic compounds
Day 6	Cluster organometallic compounds (contd.)
Day 7	Alkyls and Aryls of Transition Metals: Types
Day 8	Test from above topics
Day 9	Alkyls and Aryls of Transition Metals: Types (contd.)
Day 10	routes of synthesis
Day 11	routes of synthesis (contd.)
Day 12	stability and decomposition pathways
Day 13	stability and decomposition pathways (contd.)
Day 14	organocopper in organic synthesis
Day 15	organocopper in organic synthesis (contd.)
Day 16	Test from above topics
Day 17	Transition metal π–complexes with alkenes
Day 18	Transition metal π–complexes with alkenes (contd.)
Day 19	Transition metal π–complexes with alkenes (contd.)
Day 20	Transition metal π–complexes with alkynes
Day 21	Transition metal π–complexes with alkynes (contd.)

Day 22	Transition metal π–complexes with alkynes (contd.)
Day 23	Transition metal π–complexes with allyls
Day 24	Transition metal π–complexes with allyls (contd.)
Day 25	Transition metal π–complexes with allyls (contd.)
Day 26	Transition metal π–complexes with dienyls (metallocenes)
Day 27	Transition metal π–complexes with dienyls (metallocenes) (contd.)
Day 28	Test from above topics
Day 29	Preparation of Transition metal π–complexes
Day 30	Preparation of Transition metal π–complexes (contd.)
Day 31	Properties of Transition metal π–complexes
Day 32	Properties of Transition metal π–complexes (contd.)
Day 33	Properties of Transition metal π–complexes (contd.)
Day 34	Nature of bonding and structural features
Day 35	Nature of bonding and structural features (contd.)
Day 36	Important reactions related to nucleophilic attack on ligands
Day 37	Important reactions related to electrophilic attack on ligands
Day 38	Important reactions related to organic synthesis
Day 39	Important reactions related to organic synthesis (contd.)
Day 40	Test from above topics
Day 41	Introduction to Transition metal- carbene complexes: Fischer type and Schrock type carbene complexes
Day 42	Synthesis of Fischer type carbene complexes
Day 43	Reactions of Fischer type carbene complexes
Day 44	Structure and Bonding of Fischer type carbene complexes

Day 45	Structure and Bonding of Fischer type carbene complexes (contd.)
Day 46	Synthesis of Schrock type carbene complexes
Day 47	Reactions of Schrock type carbene complexes
Day 48	Reactions of Schrock type carbene complexes (contd.)
Day 49	Test from above topics
Day 50	Structure and Bonding of Schrock type carbene complexes
Day 51	Structure and Bonding of Schrock type carbene complexes (contd.)
Day 52	Transition metal-carbyne complexes: synthesis
Day 53	Transition metal-carbyne complexes: synthesis (contd.)
Day 54	Transition metal-carbyne complexes: reactions
Day 55	Transition metal-carbyne complexes: reactions (contd.)
Day 56	Transition metal-carbyne complexes: structural features
Day 57	Transition metal-carbyne complexes: structural features (contd.)
Day 58	Transition metal-carbyne complexes: structural features (contd.)
Day 59	Test from above topics
Day 60	Fluxionality & dynamic equilibria in compounds such as acyclic alkenes
Day 61	Fluxionality & dynamic equilibria in compounds such as acyclic alkenes (contd.)
Day 62	Fluxionality & dynamic equilibria in compounds such as σ-bonded alkenes
Day 63	Fluxionality & dynamic equilibria in compounds such as σ-bonded alkenes (contd.)
Day 64	Fluxionality & dynamic equilibria in compounds such as π–bonded cyclic alkenes
Day 65	Fluxionality & dynamic equilibria in compounds such as π–bonded cyclic alkenes (contd.)
Day 66	Rotation of ligands on metals

Day 67	Rotation of ligands on metals (contd.)
Day 68	Ligand scrambling on metals
Day 69	Test from above topics
Day 70	Ligand scrambling on metals (contd.)
Day 71	Zeigler-Natta polymerization ; homogeneous catalytic hydrogenation
Day 72	Zeigler-Natta polymerization ; homogeneous catalytic hydrogenation (contd.)
Day 73	Alkene hydrogenation-Wilkinson Catalyst
Day 74	Alkene hydrogenation-Wilkinson Catalyst (contd.)
Day 75	Oxidation of olefins-Wacker's process
Day 76	Oxidation of olefins-Wacker's process (contd.)
Day 77	Hydroformylation of olefins – the oxo process
Day 78	Hydroformylation of olefins – the oxo process (contd.)
Day 79	Test from above topics
Day 80	Revision of Section A
Day 81	Revision of Section A
Day 82	Revision of Section B
Day 83	Revision of Section B
Day 84	Revision of Section C
Day 85	Revision of Section C
Day 86	Revision of Section D
Day 87	Revision of Section D
Day 88	Revision of Section A and B
Day 89	Revision of Section C and D

Name Of The Assistant Professor: Ms. Sudha Diwakar
Class And Section: B.Sc Biotech 6th sem
Subject: Organic Chemistry, BT-606

Lectures Per Week: 3

Day 1	Molecular orbital picture and aromatic characteristics Of pyrrole
Day 2	
Day 3	
Day 4	Molecular orbital picture and aromatic characteristics furan.
Day 5	.
Day 6	Molecular orbital p icture and aromatic characteristics Of thiophene and pyridine
Day 7	Methods of synthesis
Day 8	
Day 9	
Day 10	Methods of synthesis
Day 11	
Day 12	chemical reactions of pyrrole , furan and thiophnes
Day 13	the mechanism of electrophilic substitution. -
Day 14	
Day 15	
Day 16	Mechanism of nucleophilic substitution reactions in pyridine derivatives
Day 17	.
Day 18	Comparison of basicity of pyridine, piperidine and pyrrole
Day 19	condensed five and six- membered heterocycles
Day 20	
Day 21	
Day 22	Prepration of indole, quinoline and isoquinoline.
Day 23	

Day 24	indole synthesis, Skraup synthesis and Bischler-Napieralski synthesis
Day 25	Reactions of indole
Day 26	
Day 27	
Day 28	Reactions of quinoline and isoquinoline
Day 29	
Day 30	Mechanism of electrophilic substitution reactions of quinolone isoquinoline
Day 31	
Day 32	
Day 33	
Day 34	Nomenclature, structural features, Methods of formation of thiols.
Day 35	
Day 36	Methods of formation of thioethers, sulphonic acids
Day 37	Chemical reactions of thiols
Day 38	
Day 39	
Day 40	Chemical reactions of thioethers
Day 41	
Day 42	Methods of formation of sulphonic acids
Day 43	Methods of formation of sulphonamides and sulphaguanidine
Day 44	
Day 45	
Day 46	Chemical reactions of sulphonic acids, sulphonamides and sulphaguanidine
Day 47	
Day 48	Class test
Day 49	Chemical reactions of sulphonamides and sulphaguanidine
Day 50	
Day 51	
Day 52	Synthetic detergents alkyl and aryl sulphonates
Day 53	
Day 54	Acidity of hydrogen, alkylation of diethyl malonate and ethyl Acetoacetat.
Day 55	alkylation of ethyl Acetoacetate.
Day 56	
Day 57	
Day 58	The Claisen condensation. Keto-enoltautomerism of ethyl acetoacetate
Day 59	
Day 60	Addition or chain-growth polymerization.
Day 61	Free radical vinyl Polymerization
Day 62	
Day 63	
Day 64	Ionic vinyl polymerization, Ziegler-Natta polymerization and vinyl polymers.

Day 65	
Day 66	. Condensat ion or step growth polymerization. Polyesters , Polyamides
Day 67	
Day 68	phenol formaldehyde resins, urea formaldehyde resins, epoxy re sins and polyurethanes.
Day 69	Natural and synthetic rubbers -
Day 70	
Day 71	
Day 72	CLASS TEST
Day 73	
Day 74	
Day 75	Classification of amino acids. Acid-base behavior.
Day 76	
Day 77	structure, and classification of Proteins
Day 78	, isoelectric point and electrophoresis
Day 79	
Day 80	
Day 81	Preparation of amino acids,
Day 82	
Day 83	Peptide structure determination, end group analysis,
Day 84	selective hydrolysis of peptides
Day 85	
Day 86	
Day 87	Classical peptide synthesis, solid–phase peptide synthesis
Day 88	
Day 89	Structures of peptides and proteins:Primary & Secondary structure.
Day 90	

Name Of The Assistant Professor: Ms. Sudha Diwakar
Class And Section: B.Sc Biotech 4th sem
Subject: Organic Chemistry, BT-306

Lectures Per Week: 3

Day 1	Molecular vibrations, Hooke's law
Day 2	selection rules, intensity and position of IR bands
Day 3	measurement of IR spectrum, fingerprint region
Day 4	
Day 5	
Day 6	
Day 7	characteristic absorptions of various functional groups and interpretation of IR spectra of simple organic compounds.
Day 8	Applications of IR spectroscopy in structure elucidation of simple organic compounds
Day 9	**Test**
Day 10	
Day 11	
Day 12	
Day 13	
Day 14	Structure and nomenclature of amines, physical properties. Separation of a mixture of primary, secondary and tertiary amines
Day 15	Structural features affecting basicity of amines
Day 16	
Day 17	
Day 18	
Day 19	
Day 20	
Day 21	Preparation of alkyl and aryl amines
Day 22	electrophilic aromatic substitution in aryl amines.
Day 23	reactions of amines with nitrous acid.
Day 24	
Day 25	
Day 26	
Day 27	
Day 28	Replacement of diazo group by H, OH, F, Cl, Br, I, NO2 and CN groups
Day 29	reduction of diazonium salts to hyrazines, coupling reaction and its synthetic application
Day 30	Preparation of nitro alkanes
Day 31	
Day 32	

Day 33	
Day 34	
Day 35	Assignment
Day 36	Preparation of nitro arenes and their chemical reactions.
Day 37	Mechanism of electrophilic substitution reactions in nitro arenes
Day 38	
Day 39	
Day 40	
Day 41	
Day 42	reductions in acidic, neutral and alkaline medium
Day 43	Class test
Day 44	reductions in acidic, neutral and alkaline medium and Revision
Day 45	
Day 46	
Day 47	
Day 48	
Day 49	Nomenclature and structure of the carbonyl group. Synthesis of aldehydes and ketones
Day 50	Synthesis of aldehydes and ketones
Day 51	oxidation reaction
Day 52	
Day 53	
Day 54	
Day 55	
Day 56	advantage of oxidation of alcohols with chromium trioxide (Sarett reagent) pyridinium chlorochromate (PCC) and pyridinium dichromate
Day 57	pyridinium chlorochromate (PCC) and pyridinium dichromate
Day 58	
Day 59	
Day 60	
Day 61	
Day 62	
Day 63	Physical properties
Day 64	Comparison of reactivities of aldehydes and ketones
Day 65	Chemical properties
Day 66	
Day 67	
Day 68	
Day 69	
Day 70	benzoin, aldol, Perkin
Day 71	Knoevenagel condensations. Condensation with ammonia and its derivatives. Wittig reaction
Day 72	Mannich reaction.Oxidation of aldehydes, Baeyer–Villiger oxidation of ketons
Day 73	
Day 74	

Day 75	
Day 76	
Day 77	Class test
Day 78	Cannizzaro reaction. MPV, Clemmensen
Day 79	Assisgnment on named reaction
Day 80	wolff-Kishner, LiAlH4 and NaBH4 reductions
Day 81	
Day 82	
Day 83	
Day 84	wolff-Kishner, LiAlH4 and NaBH4 reductions
Day 85	Revision
Day 86	
Day 87	
Day 88	
Day 89	
Day 90	

Name Of The Assistant Professor: Ms. Sudha Diwakar

Class And Section: B.Sc Biotech 4^{th} **sem**

Subject: Inorganic Chemistry, BT-407

Lectures Per Week: 1

Day 1	
Day 2	
Day 3	
Day 4	
Day 5	Chemistry of analysis of various acid radicals.
Day 6	
Day 7	
Day 8	

Day 9	
Day 10	
Day 11	Identification of acid radicals
Day 12	
Day 13	
Day 14	
Day 15	
Day 16	
Day 17	Interference of acid radical including their removal
Day 18	
Day 19	
Day 20	
Day 21	
Day 22	
Day 23	
Day 24	Interference of acid radical including their removal in the analysis of basic radicals.
Day 25	
Day 26	
Day 27	
Day 28	
Day 29	Analysis of group I to group II basic radicals
Day 30	
Day 31	
Day 32	

Day 33	
Day 34	
Day 35	Analysis of group III to group IV basic radicals
Day 36	
Day 37	
Day 38	
Day 39	
Day 40	
Day 41	Analysis of group V to group VI basic radicals
Day 42	
Day 43	
Day 44	
Day 45	
Day 46	
Day 47	Class Test
Day 48	
Day 49	
Day 50	
Day 51	
Day 52	
Day 53	Theory of precipitation
Day 54	
Day 55	
Day 56	
Day 57	

Day 58	
Day 59	Factors affecting precipitation
Day 60	
Day 61	
Day 62	
Day 63	
Day 64	
Day 65	Class test
Day 66	
Day 67	
Day 68	
Day 69	
Day 70	
Day 71	Co- precipitation
Day 72	
Day 73	
Day 74	
Day 75	
Day 76	Post precipitation
Day 77	
Day 78	
Day 79	
Day 80	
Day 81	
Day 82	Purification of precipitates

Day 83	
Day 84	
Day 85	
Day 86	
Day 87	
Day 88	Test and assignment.
Day 89	
Day 90	

Name of the professor: Ms. Rajni **Class And Section: M.Sc Chemistry II Semester** **Subject: General Spectroscopy, 16CHE22D1**	
Day 1	
Day 2	
Day 3	NMR introduction and principle
Day 4	Spin active nuclei
Day 5	
Day 6	
Day 7	
Day 8	
Day 9	
Day 10	chemical shift

Day 11	chemical shift cont.
Day 12	
Day 13	
Day 14	
Day 15	
Day 16	
Day 17	shielding and deshielding
Day 18	shielding and deshielding cont.
Day 19	
Day 20	
Day 21	
Day 22	
Day 23	
Day 24	internal standards and solvent
Day 25	spin-spin coupling
Day 26	
Day 27	
Day 28	
Day 29	
Day 30	
Day 31	equivalent and non- Equivalent Protons
Day 32	equivalent and non- Equivalent Protons cont.
Day 33	
Day 34	
Day 35	

Day 36	
Day 37	
Day 38	Assignment
Day 39	Factors- effect of changing solvents
Day 40	
Day 41	
Day 42	
Day 43	
Day 44	
Day 45	Factors- hydrogen bonding on chemical shifts
Day 46	anisotropic effect
Day 47	
Day 48	
Day 49	
Day 50	
Day 51	
Day 52	Test
Day 53	Applications of NMR in the structure elucidation of Organic Compounds
Day 54	
Day 55	
Day 56	
Day 57	
Day 58	
Day 59	Applications of NMR in the structure elucidation of inorganic Compounds
Day 60	Examples of NMR

Day 61	
Day 62	
Day 63	
Day 64	
Day 65	
Day 66	Principles of UV
Day 67	Applications of UV in the structure elucidation of Organic Compounds
Day 68	
Day 69	
Day 70	
Day 71	
Day 72	
Day 73	Principles of IR
Day 74	Applications of IR in the structure elucidation of Organic Compounds
Day 75	
Day 76	
Day 77	
Day 78	
Day 79	
Day 80	Applications of IR in the structure elucidation of inorganic Compounds
Day 81	Doubts
Day 82	
Day 83	
Day 84	
Day 85	

Day 86	
Day 87	Test
Day 88	Revision
Day 89	
Day 90	

Name of the professor: Ms. Rajni **Class And Section: M.Sc. Chemistry II Semester** **Subject: Organic Chemistry, 16CHE22C3**	
Day 1	Aliphatic Nucleophilic Substtitution Introduction
Day 2	SN2
Day 3	SN1
Day 4	mixed SN1 and SN2, SNi
Day 5	SN1', SN2'
Day 6	SNi' and SET mechanisms
Day 7	neighbouring group mechanisms Introduction and types
Day 8	neighbouring group participation by sigma and pi bonds
Day 9	anchimeric assistance
Day 10	Classical and nonclassical carbocations, phenonium ions
Day 11	common carbocation rearrangements
Day 12	Applications of NMR spectroscopy in the detection of carbocations
Day 13	Factors- Reactivity- effects of substrate structure

Day 14	attacking nucleophile, leaving group
Day 15	reaction medium
Day 16	Ambident nucleophiles and regioselectivity
Day 17	Phase transfer catalysis.
Day 18	Doubts of section -A
Day 19	Assignment
Day 20	Aliphatic Electrophilic Substitution Introduction
Day 21	Bimolecular mechanisms - SE2
Day 22	SEi. The SE1 mechanism
Day 23	Electrophilic substitution accompained by double bond shifts
Day 24	Factors- Effect of substrates, leaving group
Day 25	solvent polarity on the reactivity.
Day 26	Aromatic Electrophilic Substitution: The arenium ion, mechanism
Day 27	orientation and reactivity, energy profile diagrams
Day 28	Test
Day 29	The ortho/para ratio
Day 30	ipso attack
Day 31	orientation in ring systems
Day 32	orientation in other ring systems Cont.
Day 33	Quantitative treatment of reactivity in substrates and electrophiles
Day 34	Diazonium coupling
Day 35	Vilsmeir reaction
Day 36	Gattermann-Koch reaction
Day 37	Aromatic Nucleophilic Substitution: The ArSN1
Day 38	ArSN2

Day 39	Benzyne and SRN1 mechanisms
Day 40	Reactivity – effect of substrate structure
Day 41	leaving group and attacking nucleophile
Day 42	von Richter rearrangement
Day 43	Sommelet-Hauser Rearrangement
Day 44	Smiles rearrangements
Day 45	Assignment
Day 46	Elimination Reactions: The E2 mechanism
Day 47	E1 mechanism, E1cB mechanisms
Day 48	Orientation of the double bond
Day 49	Factors- Reactivity –effects of substrate structures
Day 50	attacking base, the leaving group and the medium
Day 51	Mechanism and orientation in pyrolytic elimination
Day 52	Mechanism and orientation in pyrolytic elimination cont.
Day 53	Addition to Carbon-Carbon Multiple Bonds Introduction
Day 54	addition reactions involving electrophiles (Br2)
Day 55	addition reactions involving electrophiles (Cl2, HBr)
Day 56	addition reactions involving electrophiles (BH3)
Day 57	addition reactions involving nucleophiles
Day 58	addition reactions involving free radicals
Day 59	regio – and chemoselectivity
Day 60	orientation and reactivity, Addition to cyclopropane ring
Day 61	Test
Day 62	Hydrogenation of double and triple bonds
Day 63	hydrogenation of aromatic rings

Day 64	Hydroboration Oxidation
Day 65	Michael reaction
Day 66	Sharpless asymmetric epoxidation
Day 67	Assignment
Day 68	Aldol
Day 69	Knoevenagel
Day 70	Claisen
Day 71	Mannich
Day 72	Benzoin
Day 73	Perkin
Day 74	Stobbe reactions
Day 75	Hydrolysis of esters
Day 76	Hydrolysis of amides,
Day 77	ammonolysis of esters
Day 78	Mechanism of metal hydride reduction of saturated and unsaturated carbonyl compounds, acids, esters and nitriles
Day 79	Mechanism of metal hydride reduction of saturated and unsaturated carbonyl compounds, acids, esters and nitriles
Day 80	Assignment
Day 81	Addition of Grignard reagents
Day 82	Organozinc
Day 83	organolithium reagents
Day 84	Wittig reaction
Day 85	Test
Day 86	Revision

Day 87	Revision
Day 88	Revision
Day 89	Revision
Day 90	Revision

Name of the professor: Ms. Manisha **Class And Section: M.SC. Ist Year** **Subject: Physical Chemistry, 16CHE22C2**	
Day 1	Classius – Clayperon equation
Day 2	law of mass action and its thermodynamic derivation.
Day 3	Third law of thermodynamics (Nernest heat theorem
Day 4	determination of absolute entropy, unattainability of absolute zero) and its limitation
Day 5	Schrodinger wave equation for a particle in a three dimensional box
Day 6	The concept of degeneracy among energy levels for a particle in three dimensional box.
Day 7	Revesion
Day 8	test
Day 9	Schrodinger wave equation for a linear harmonic oscillator
Day 10	its solution by polynomial method. Zero point energy of a particle possessing harmonic motion
Day 11	its solution by polynomial method. Zero point energy of a particle possessing harmonic motion and its consequence.

Day 12	its solution by polynomial method. Zero point energy of a particle possessing harmonic motion and its consequence.
Day 13	Schrodinger wave equation for three dimensional Rigid rotator,
Day 14	energy of rigid rotator
Day 15	revesion
Day 16	space quantization;
Day 17	Schrodinger wave equation for hydrogen atom
Day 18	separation of variable in polar spherical coordinates
Day 19	separation of variable in polar spherical coordinates and its solution,
Day 20	principle, azimuthal and magnetic quantum numbers
Day 21	the magnitude of their values, probability distribution function
Day 22	revesion
Day 23	doubt
Day 24	radial distribution function and shape of atomic orbitals (s,p & d). Section
Day 25	test
Day 26	Phase diagram for two completely miscible components systems. Eutectic systems,
Day 27	Calculation of eutectic point, systems forming solid compounds Ax By with congruent and incongruent melting points
Day 28	phase diagram and thermodynamic treatment of solid solutions
Day 29	Doubt
Day 30	revision
Day 31	Chain reactions: hydrogen - bromine reaction
Day 32	pyrolysis of acetaldehyde, decomposition of ethane.
Day 33	Photochemical reactions (hydrogen - bromine & hydrogen -chlorine reactions).

Day 34	Photochemical reactions (hydrogen - bromine & hydrogen -chlorine reactions).
Day 35	doubt
Day 36	test
Day 37	bromine reactions), apparent activation energy of chain reactions,
Day 38	chain length, Rice- Herzfeld mechanism of organic molecules decomposition(acetaldehyde)
Day 39	Branching chain reactions and explosions (H2 - O2 reaction).
Day 40	Kinetics of (one intermediate) enzymatic reaction
Day 41	Michaelis - Menton treatment, evaluation of Michaelis 's constant for enzyme
Day 42	doubt
Day 43	revsion
Day 44	test
Day 45	substrate binding by
Day 46	- Burk plot and Eadie- Hofstae methods.
Day 47	Competitive and non-competitive inhibition.
Day 48	Calculation of eutectic point, systems forming solid compounds Ax By with congruent
Day 49	thermodynamic treatment of solid solutons thermodynamic treatment of solid solutons
Day 50	Calculation of eutectic point, systems forming solid compounds Ax By with congruent
Day 51	Calculation of eutectic point, systems forming Calculation of eutectic point, systems forming
Day 52	thermodynamic treatment of solid solutons

Day 53	revision
Day 54	revision
Day 55	doubt
Day 56	test
Day 57	azimuthal and magnetic quantum numbers and the magnitude of their values, probability distribution function
Day 58	azimuthal and magnetic quantum numbers and the magnitude of their values, probability distribution function
Day 59	azimuthal and magnetic quantum numbers and the magnitude of their values, probability distribution function
Day 60	revision
Day 61	Revision
Day 62	test
Day 63	thermodynamic treatment of solid solutons
Day 64	thermodynamic treatment of solid solutons
Day 65	thermodynamic treatment of solid solutons thermodynamic treatment of solid solutons
Day 66	Calculation of eutectic point, systems forming Calculation of eutectic point, systems forming
Day 67	Ionic movement under the influence of an electric field
Day 68	mobility of ions, ionic drift velocity and its relation with current density,
Day 69	Einstein relation between the absolute mobility and diffusion coefficient,
Day 70	Revision the Stokes- Einstein relation
Day 71	the Nernst -Einstein equation
Day 72	Waldens rule, the Rate- Process approach to ionic migration

Day 73	the Rate process equation for equivalent conductivity
Day 74	total driving force for ionic transport,
Day 75	Nernst - Planck Flux equation,
Day 76	ionic drift and diffusion potential
Day 77	the Onsager phenomenological equations.
Day 78	The basic equation for the diffusion,
Day 79	Planck- Henderson equation for the diffusion potential.
Day 80	revision
Day 81	revision
Day 82	revision
Day 83	revision
Day 84	revision
Day 85	revision
Day 86	revision
Day 87	revision
Day 88	revision
Day 89	revision
Day 90	revision

Name of Professor : Ms. Manisha **Class And Section: M.Sc. (P) Chemistry** **Subject: General Spectroscopy, 16CHE22D1**		
Day 1	M	
Day 2	T	
Day 3	W	
Day 4	TH	
Day 5	F	Electronic Absorption Spectroscopy
Day 6	S	Energy levels in diatomic molecules
Day 7	M	
Day 8	T	
Day 9	W	
Day 10	TH	
Day 11	F	Introduction to electronic transition
Day 12	S	Assignment of transitions
Day 13	M	
Day 14	T	
Day 15	W	
Day 16	TH	
Day 17	F	Spectra of transition metal complexes
Day 18	S	Spectra of transition metal complexes
Day 19	M	
Day 20	T	
Day 21	W	

Day 22	TH	
Day 23	F	Orgel diagrams
Day 24	S	Orgel diagrams
Day 25	M	
Day 26	T	
Day 27	W	
Day 28	TH	
Day 29	F	Revision
Day 30	S	Test
Day 31	M	
Day 32	T	
Day 33	W	
Day 34	TH	
Day 35	F	Nuclear Magnetic Resonance
Day 36	S	Nuclear Magnetic Resonance
Day 37	M	
Day 38	T	
Day 39	W	
Day 40	TH	
Day 41	F	Applications of spin-spin coupling to structure alignment of inorganic compounds
Day 42	S	Applications of spin-spin coupling to structure alignment of inorganic compounds
Day 43	M	
Day 44	T	

Day 45	W	
Day 46	TH	
Day 47	F	evaluation of reaction rates of fast exchange reactions
Day 48	S	evaluation of reaction rates of fast exchange reactions
Day 49	M	
Day 50	T	
Day 51	W	
Day 52	TH	
Day 53	F	Revision
Day 54	S	Test
Day 55	M	
Day 56	T	
Day 57	W	
Day 58	TH	
Day 59	F	The double resonance technique
Day 60	S	The double resonance technique
Day 61	M	
Day 62	T	
Day 63	W	
Day 64	TH	
Day 65	F	Application of infra-red spectroscopy to the determination of inorganic compound
Day 66	S	Application of infra-red spectroscopy to the determination of inorganic compound
Day 67	M	

Day 68	T	
Day 69	W	
Day 70	TH	
Day 71	F	Revision
Day 72	S	Test
Day 73	M	
Day 74	T	
Day 75	W	
Day 76	TH	
Day 77	F	Revision
Day 78	S	Revision
Day 79	M	
Day 80	T	
Day 81	W	
Day 82	TH	
Day 83	F	Test
Day 84	S	Revision
Day 85	M	
Day 86	T	
Day 87	W	
Day 88	TH	
Day 89	F	Revision
Day 90	S	Revision

Name of the Assistant Professor: Dr. Jasvinder Kour

Class And Section: B.Sc. Biotech IInd year 4th sem.

Subject: ANIMAL DEVELOPMENTAL BIOLOGY (BT-4)
Lectures Per Week:

Day 1	Syllabus Discussion
Day 2	-
Day 3	-
Day 4	Definition, scope & historical perspective of development Biology
Day 5	Definition, scope & historical perspective of development Biology
Day 6	Gametogenesis – Spermatogenesis,
Day 7	Gametogenesis – Spermatogenesis,
Day 8	-
Day 9	-
Day 10	Gametogenesis – Spermatogenesis,
Day 11	Gametogenesis – Spermatogenesis,
Day 12	Oogenesis
Day 13	Oogenesis
Day 14	-
Day 15	-
Day 16	Oogenesis
Day 17	Fertilization - Definition, mechanism,
Day 18	Fertilization - Definition, mechanism,
Day 19	Types of fertilization. Different types of eggs on the basis of yolk

Day 20	-
Day 21	-
Day 22	Types of fertilization. Different types of eggs on the basis of yolk
Day 23	Different types of eggs on the basis of yolk
Day 24	Different types of eggs on the basis of yolk
Day 25	Cleavage: Definition, types,
Day 26	-
Day 27	-
Day 28	Cleavage: Definition, types,
Day 29	Patterns & mechanism Blastulation: Process, types & mechanism
Day 30	Patterns & mechanism Blastulation: Process, types & mechanism
Day 31	Patterns & mechanism Blastulation: Process, types & mechanism
Day 32	-
Day 33	-
Day 34	Gastrulation: Morphogenetic movements– epiboly
Day 35	Gastrulation: Morphogenetic movements– epiboly
Day 36	Emboly,
Day 37	Emboly,
Day 38	-
Day 39	-
Day 40	Extension
Day 41	Invagination,
Day 42	Convergence,
Day 43	De-lamination

Day 44	-
Day 45	-
Day 46	TEST
Day 47	Formation & differentiation of primary germ layers
Day 48	Formation & differentiation of primary germ layers
Day 49	Formation & differentiation of primary germ layers
Day 50	-
Day 51	-
Day 52	Fate Maps in early embryos
Day 53	Fate Maps in early embryos
Day 54	Differentiation: Cell commitment and determination- the epigenetic landscape:
Day 55	Differentiation: Cell commitment and determination- the epigenetic landscape:
Day 56	-
Day 57	-
Day 58	Differentiation: Cell commitment and determination- the epigenetic landscape:
Day 59	A model of determination and differentiation
Day 60	A model of determination and differentiation
Day 61	Control of differentiation at the level of genome
Day 62	-
Day 63	-
Day 64	Control of differentiation at the level of genome
Day 65	Transcription and post-translation level Concept of embryonic induction

Day 66	Transcription and post-translation level Concept of embryonic induction
Day 67	Primary, secondary & tertiary embryonic induction
Day 68	-
Day 69	-
Day 70	Primary, secondary & tertiary embryonic induction
Day 71	Neural induction and induction of vertebrate lens, development of vertebrate eye.
Day 72	Neural induction and induction of vertebrate lens, development of vertebrate eye.
Day 73	Neurulation,
Day 74	-
Day 75	-
Day 76	Notogenesis
Day 77	TEST
Day 78	Fate of different primary germlayers
Day 79	Development of behaviour: constancy & plasticity
Day 80	-
Day 81	-
Day 82	Development of behaviour: constancy & plasticity
Day 83	Extra embryonic membranes
Day 84	Placenta in Mammals
Day 85	Revision
Day 86	-
Day 87	-
Day 88	Revision

Day 89	Revision
Day 90	Revision

Name of the Assistant Professor: Dr. Jasvinder Kour **Class And Section: B.Sc. Biotech III year 6th sem.** **Subject: PLANT BIOTECHNOLOGY & ENVIRONMENTAL BIOTECHNOLOGY (BT- 604)** **Mode Of Teaching: Offline Lectures Per Week: 4**	
Day 1	Syllabus Discussion
Day 2	-
Day 3	Introduction to i*n vitro* methods
Day 4	-
Day 5	Introduction to i*n vitro* methods
Day 6	-
Day 7	Terms and definitions.
Day 8	-
Day 9	Use of growth regulators.
Day 10	-
Day 11	Use of growth regulators.
Day 12	-
Day 13	Embryo culture,
Day 14	-

Day 15	Embryo rescue after wide hybridization and its applications
Day 16	-
Day 17	Introduction to the processes of embryogenesis and
Day 18	
Day 19	Introduction to the processes of embryogenesis and
Day 20	-
Day 21	Organogenesis and their practical applications.
Day 22	-
Day 23	Organogenesis and their practical applications.
Day 24	-
Day 25	Clonal multiplication of lite species (Micropropagation) exillary bud
Day 26	-
Day 27	Shoot-tip and meristem culture
Day 28	-
Day 29	Haploids and their applications,
Day 30	-
Day 31	Somaclonal variations and applications.
Day 32	-
Day 33	Endosperm culture and production of triploids.
Day 34	-
Day 35	Single –cell suspension cultures.
Day 36	-
Day 37	Introduction to protoplast isolation: Principles and applications
Day 38	-
Day 39	Introduction to protoplast isolation: Principles and applications

Day 40	-
Day 41	TEST
Day 42	-
Day 43	Various steps in the regeneration of protoplasts.
Day 44	-
Day 45	Somatic hybridization – an introduction
Day 46	-
Day 47	Use of markers for selection of hybrid cells
Day 48	-
Day 49	Use of markers for selection of hybrid cells:
Day 50	-
Day 51	Practical applications of somatic hybridization (hybrids vs cybrids
Day 52	-
Day 53	Microbiological quality of food and water
Day 54	--
Day 55	Microbiological quality of food and water
Day 56	-
Day 57	Treatment of municipal waste and industries effluents.
Day 58	-
Day 59	Treatment of municipal waste and industries effluents.
Day 60	-
Day 61	Degradation of pesticides and other toxic chemicals by microorganisms (Bioremediation).
Day 62	-

Day 63	Degradation of pesticides and other toxic chemicals by microorganisms (Bioremediation).
Day 64	-
Day 65	Degradation of pesticides and other toxic chemicals by microorganisms (Bioremediation).
Day 66	-
Day 67	Thuringiensis toxin as a natural pesticide.
Day 68	-
Day 69	Thuringiensis toxin as a natural pesticide.
Day 70	-
Day 71	Biological control of other insects swarming the agricultural fields.
Day 72	-
Day 73	Biological control of other insects swarming the agricultural fields.
Day 74	-
Day 75	TEST
Day 76	-
Day 77	Enrichment of ores by microorganisms.
Day 78	--
Day 79	Biofertilizers,
Day 80	-
Day 81	Nitrogen fixing microorganisms enrich the soil with assimilable nitrogen.
Day 82	-
Day 83	Nitrogen fixing microorganisms enrich the soil with assimilable nitrogen.
Day 84	-
Day 85	Revision

Day 86	-
Day 87	Revision
Day 88	-
Day 89	Revision
Day 90	Revision

Name of the Assistant Professor: Dr. Jasvinder Kour

Class And Section: B.Sc. 1st (Biotech.) 2nd sem.

Subject: GENETICS (BT-203)

Mode of Teaching: Offline

Lectures Per Week: 4

Day 1	Syllabus Discussion
Day 2	Historical developments in the field of genetics
Day 3	Organisms suitable for genetic experimentation and their genetic significance.
Day 4	-
Day 5	Organisms suitable for genetic experimentation and their genetic significance.
Day 6	-
Day 7	Mitosis and Meiosis:
Day 8	Control points in cell-cycle progression in yeast
Day 9	Role of meiosis in life cycle
Day 10	-
Day 11	Mendel's experimental design, monohybrid, di-hybrid and tryhybrid crosses,
Day 12	-
Day 13	Law of segregation & Principle of independent assortment.
Day 14	Verification of segregates by test and back cross,
Day 15	Chromosome theory of inheritance, Allelic interactions: Concept of dominance,
Day 16	-
Day 17	Chromosome theory of inheritance, Allelic interactions: Concept of dominance,
Day 18	-

Day 19	Multiple allele, pseudoallele, essential and lethal genes,
Day 20	Penetrance and expressivity.
Day 21	Interaction producing new phenotype complementary genes
Day 22	-
Day 23	Epistasis (dominant & recessive)
Day 24	-
Day 25	Duplicate genes and inhibitory genes.
Day 26	Eukaryotic nuclear genome- nucleotide sequence composition –unique & repetitive DNA,
Day 27	Satellite DNA. Centromere and telomere DNA sequences
Day 28	-
Day 29	Middle repetitive sequences- VNTRs & dinucleotide repeats
Day 30	-
Day 31	Repetitive transposed sequences- SINEs & LINEs
Day 32	Middle repetitive multiple copy genes, noncoding DNA.
Day 33	Genetic organization of prokaryotic and viral genome.
Day 34	-
Day 35	Structure and characteristics of bacterial and eukaryotic chromosome-
Day 36	-
Day 37	Test
Day 38	chromosome morphology,
Day 39	Concept of euchromatin and heterochromatin, packaging of DNA molecule into chromosomes
Day 40	-
Day 41	Karyotype, giant chromosomes,
Day 42	-
Day 43	one gene one polypeptide hypothesis, concept of cistron
Day 44	Exons, introns, genetic code, gene function.
Day 45	TEST
Day 46	-
Day 47	Definition and types of mutations, causes of mutations,
Day 48	-
Day 49	Ames test for mutagenic agents
Day 50	Screening procedures for isolation of mutants and uses of mutants
Day 51	Variations in chromosomes structure - deletion, duplication, inversion and translocation (reciprocal and Robertsonian),
Day 52	-
Day 53	Position effects of gene expression
Day 54	-
Day 55	Chromosomal aberrations in human beings,
Day 56	Abonormalities–Aneuploidy and Euploidy.
Day 57	Mechanisms of sex determination,
Day 58	-

Day 59	Environmental factors and sex determination, sex Differentiation
Day 60	-
Day 61	Barr bodies, dosage compensation,
Day 62	-
Day 63	Genetic balance theory, Fragile-X-syndrome and chromosome,
Day 64	-
Day 65	Sex influenced dominance, sex limited gene expression, sex linked inheritance.
Day 66	-
Day 67	Molecular mechanism of crossing over,
Day 68	Molecular mechanism of crossing over
Day 69	Crossing over at four- strand stage, Multiple crossing overs
	Genetic mapping.
Day 70	-
Day 71	Rules of extra nuclear inheritance, maternal effects, maternal inheritance
Day 72	-
Day 73	Cytoplasmic inheritance, organelle heredity,
Day 74	Genomic imprinting,
Day 75	Inbreeding and out breeding,
Day 76	-
Day 77	Hardy Weinberg law assumption, (prediction,derivation),
Day 78	-
Day 79	Hardy Weinberg law assumption, (prediction,derivation),
Day 80	Allelic and genotype frequencies,
Day 81	Changes in allelic frequencies
Day 82	-
Day 83	Systems of mating.
Day 84	-
Day 85	Evolutionary genetics, natural selection
Day 86	Revision
Day 87	Revision
Day 88	-
Day 89	Revision
Day 90	-

Name of the professor: Dr Sonam Ahuja

Class And Section: M.Sc(Maths) 2nd sem

Subject: Theory of Field Extension

Day 1	Intro to unit 1
Day 2	Field Extension & their properties
Day 3	Simple Extensions
Day 4	Algebraic & Trancedental Extensions
Day 5	Related Theorems
Day 6	Factorization of Polynomials
Day 7	Splitting Fields
Day 8	Related Theorems
Day 9	Numericals
Day 10	Numericals
Day 11	Algebraically closed Fields
Day 12	Seperable Extensions
Day 13	Related Theorems
Day 14	Perfect Fields
Day 15	Related Theorems
Day 16	Numericals
Day 17	Doubt Session of unit 1
Day 18	Intro to unit 2
Day 19	Galios Theory
Day 20	Automorphism of Fields

Day 21	Related Theorems
Day 22	Monomorphisms and their linear independence
Day 23	Related Theorems
Day 24	Numericals
Day 25	Numericals
Day 26	Related Theorems
Day 27	Fixed Fields
Day 28	Normal Extension
Day 29	Related Theorems
Day 30	Normal Closure of an Extension
Day 31	Test of Unit 1
Day 32	Numericals
Day 33	Numericals
Day 34	The Fundamental Theorem of Galios Theory
Day 35	Norms & Traces
Day 36	Related Theorems
Day 37	Doubt Session of unit 2
Day 38	Doubt Session of unit 2
Day 39	Intro to unit 3
Day 40	Normal Basis
Day 41	Galios Fields
Day 42	Related Theorems
Day 43	Cyclotomic Extensions
Day 44	Related Theorems

Day 45	Cyclotomic Polynomials
Day 46	Related Theorems
Day 47	Cyclotomic Exrensions of rational number Field
Day 48	Numericals
Day 49	Numericals
Day 50	Cyclic Extension
Day 51	Related Theorems
Day 52	Test of unit 2
Day 53	Wedderburn Theorem
Day 54	Doubt Session of unit 3
Day 55	Intro to unit 4
Day 56	Ruler and Compasses Construction
Day 57	Solutions by radicals
Day 58	Numericals
Day 59	Extensions by radicals
Day 60	Generic Polynomial
Day 61	Numericals
Day 62	Numericals
Day 63	Algebraically independent Sets
Day 64	Related Theorems
Day 65	Related Theorems
Day 66	Insolvability of the general polynomial of degree n>=5
Day 67	Test of unit 3
Day 68	Numericals

Day 69	Doubt Session of unit 4
Day 70	Revision
Day 71	Revision
Day 72	Assignment
Day 73	Doubt Session
Day 74	Doubt Session
Day 75	Revision
Day 76	Revision
Day 77	Revision
Day 78	Revision
Day 79	Revision
Day 80	Test of unit 4
Day 81	Revision
Day 82	Revision
Day 83	Revision
Day 84	Revision
Day 85	Revision
Day 86	Revision
Day 87	Revision
Day 88	Revision
Day 89	Revision
Day 90	Revision

Name of the professor:Ms.Pooja Khatana

Class And Section: M.Sc.(F) Chemistry

Subject: Inorganic Special-V

(Electro Analytical Chemistry), 17CHE24GA2

Day 1	Introduction Of Electroanalytical Chemistry
Day 2	Electrons at and across interfaces
Day 3	Electro-Chemical And Chemical Reactions
Day 4	Basic Principles
Day 5	Residual Current
Day 6	Migration Current
Day 7	Diffusion Current
Day 8	Limiting Current
Day 9	Saturated Calomel Electrode(SCE)
Day 10	Dropping Mercury Electrode(DME)
Day 11	Revision
Day 12	Ilkovic Equation
Day 13	Koutecky Equation for Diffusion Current
Day 14	Polarographic Waves(Anodic)
Day 15	Polarographic Waves(Cathodic)
Day 16	Half Wave Potentials
Day 17	Oxygen Interference
Day 18	Maxima
Day 19	Maxima
Day 20	Function Of Supporting Electrolyte

Day 21	Revision
Day 22	Test
Day 23	Determination of stability constants of complexes (reversible systems only) by D.C.Polarography
Day 24	Determination of stability constants of complexes (reversible systems only) by D.C.Polarography
Day 25	Catalytic hydrogen wave
Day 26	Principles of Amperometric titrations
Day 27	Types of titration curves
Day 28	Apparatus and techniques
Day 29	Revision
Day 30	Hanging mercury drop electrode
Day 31	Rotating droping mercury electrode
Day 32	Platinum Electrodes(RPE)
Day 33	Gold electrode
Day 34	Carbon paste electrode
Day 35	Glassy carbon electrode
Day 36	Graphite electrode
Day 37	Revision
Day 38	Test
Day 39	Revision of section A
Day 40	Revision of section B
Day 41	Test
Day 42	Basics of polarography (Voltammetry)
Day 43	A.C. Polarography

Day 44	D.C. Polarography
Day 45	Super imposed a.c. Polarography
Day 46	Voltametry in quiet solution with electrode other than mercury
Day 47	Voltametry in stirred solution with electrode other than mercury
Day 48	Square-wave polarography
Day 49	Square-wave polarography
Day 50	Revision
Day 51	Pulse Polarography
Day 52	Normal pulse polarography
Day 53	Differential pulse polarography
Day 54	Chronopotentiometry
Day 55	Chronopotentiometry
Day 56	Chronoamperometry
Day 57	Chronoamperometry
Day 58	Coulometry
Day 59	Coulometry
Day 60	Revision
Day 61	Test
Day 62	Stripping voltametry
Day 63	Theory of anodic stripping voltametry
Day 64	Theory of anodic stripping voltametry
Day 65	Concentration process
Day 66	Rest period
Day 67	Stripping process

Day 68	Cathodic stripping voltametry
Day 69	Cathodic stripping voltametry
Day 70	Anodic deposition
Day 71	Anodic deposition
Day 72	Cathodic redissolution
Day 73	Cathodic redissolution
Day 74	Experimental and applications of above system to Inorganic systems
Day 75	Applications of above system to Inorganic systems
Day 76	Revision
Day 77	Ion selective electrodes
Day 78	Principle of ion selective electrodes
Day 79	Types of ion selective electrodes
Day 80	Liquid membrane electrode
Day 81	Gas membrane electrode
Day 82	Solid state electrode
Day 83	Gas sensing electrode
Day 84	Design and working
Day 85	Theory of ion selective electrodes
Day 86	Experimental of ISE to Inorganic systems
Day 87	Applications of ISE to Inorganic systems
Day 88	Revision
Day 89	Test
Day 90	Revision

Name of the professor:Ms.Pooja Khatana **Class And Section:M.Sc.(P) Chemistry** **Subject: General Spectroscopy, 16CHE22D1**	
Day 1	Introduction of spectroscopy
Day 2	
Day 3	
Day 4	
Day 5	
Day 6	
Day 7	Electromagnetic radiation
Day 8	
Day 9	
Day 10	
Day 11	
Day 12	
Day 13	
Day 14	Interaction of electromagnetic radiation with matter
Day 15	
Day 16	
Day 17	
Day 18	
Day 19	
Day 20	
Day 21	Regions of the Spectrum

Day 22	
Day 23	
Day 24	
Day 25	
Day 26	
Day 27	
Day 28	Resolving power
Day 29	
Day 30	
Day 31	
Day 32	
Day 33	
Day 34	
Day 35	The width and intensity of spectral transitions
Day 36	
Day 37	
Day 38	
Day 39	
Day 40	
Day 41	
Day 42	The rotation of molecules, rotational spectra of diatomic molecules
Day 43	
Day 44	
Day 45	

Day 46	
Day 47	
Day 48	
Day 49	The spectrum of non rigid rotator, the effect of isotopic substitutions
Day 50	
Day 51	Rotational spectra of linear and symmetric top polyatomic molecules
Day 52	
Day 53	
Day 54	
Day 55	
Day 56	
Day 57	
Day 58	The vibrating diatomic molecule; simple harmonic vibrations
Day 59	Anharmonicity of vibrations, the diatomic vibrating rotator
Day 60	
Day 61	
Day 62	
Day 63	
Day 64	
Day 65	The interaction of rotations and vibrations the vibrations of polyatomic molecules
Day 66	Analysis by infrared technique
Day 67	
Day 68	

Day 69	
Day 70	Electronic spectra of diatomic molecules, vibrational course structure
Day 71	rotational fine structure of electronic band
Day 72	
Day 73	
Day 74	
Day 75	
Day 76	
Day 77	
Day 78	The Frank- Condon principle
Day 79	
Day 80	
Day 81	
Day 82	
Day 83	intensity of vibrational-electronic band, dissociation energy
Day 84	
Day 85	
Day 86	
Day 87	The Fortrat diagram.
Day 88	
Day 89	
Day 90	Revision

Name of the professor: Dr Sonam Ahuja

Class And Section: M.Sc(Maths) 4th Sem

Subject: Algebraic Number Theory

Day 1	Intro to Algebraic Numbers
Day 2	Unit 1: Gaussian Integers and its properties
Day 3	Primes & fundamental theorem in the ring of Gaussian integers
Day 4	Integers and Fundamental theorem in Q(i)
Day 5	Division Algorithm in Q(i)
Day 6	Integers and Fundamental theorem in Q(w) where w^3 =1
Day 7	Division Algorithm in Q(w)
Day 8	Algebraic Fields
Day 9	Primitive Polynomials Q(√m)
Day 10	The general Quadratic Field Q(√m)
Day 11	Related Theorems
Day 12	Units of Q(√2)
Day 13	Fields in which Fundamental Theorem is false
Day 14	Numericals
Day 15	Real and Complex Euclidean Fields
Day 16	Topic Continued
Day 17	Fermat Theorem in the ring of Gaussian Integers
Day 18	Numericals
Day 19	Primes of Q(√2) and Q(√5)
Day 20	Related Theorems

Day 21	Topic Continued
Day 22	Doubt Session of unit 1
Day 23	Doubt Session of unit 1
Day 24	Unit 2: Countability of set of Algebraic Numbers
Day 25	Topic Continued
Day 26	Liouville theorem and its generalizations
Day 27	Topic Continued
Day 28	Trancedental Numbers
Day 29	Algebraic Number Fields
Day 30	Test of unit 1
Day 31	Topic Continued
Day 32	Liouville Theorem of primitive elements
Day 33	Ring of algebraic Integers
Day 34	Topic Continued
Day 35	Theorem of Primitive elements
Day 36	Numericals
Day 37	Doubt Session of unit 2
Day 38	Doubt Session of unit 2
Day 39	Intro to unit 3
Day 40	Norm and Trace of an algebraic number
Day 41	Non degeneracy of bilinear Pairing
Day 42	Existence of an integral basis
Day 43	Topic Continued
Day 44	Numericals

Day 45	Assignment of unit 1 & unit 2
Day 46	Discriminant of an algebraic number Field
Day 47	Test of unit 2
Day 48	Ideals in the ring of algebraic integers
Day 49	Topic Continued
Day 50	Explicit Construction of Integral Basis
Day 51	Sign of the Discriminant
Day 52	Cyclotomic Fields
Day 53	Topic Continued
Day 54	Calculation of quadratic and cubic cases
Day 55	Doubt Session of unit 3
Day 56	Doubt Session of unit 3
Day 57	Intro to unit 4
Day 58	Unit 4: Integral Closure
Day 59	Noetherian ring
Day 60	Topic Continued
Day 61	Characterizing Dedekind Domains
Day 62	Fractional Ideals and Unique Factorization
Day 63	G.C.D and L.C.M of Ideals
Day 64	Topic Continued
Day 65	Chinese Remainder Theorem
Day 66	Dedekind Theorem
Day 67	Topic Continued
Day 68	Test of unit 3

Day 69	Numericals
Day 70	Numericals
Day 71	Ramified and Unramified Extensions
Day 72	Different of an Algebraic Number Field
Day 73	Topics Revision
Day 74	Factorization in the ring of algebraic integers
Day 75	Doubt Session of unit 4
Day 76	Doubt Session of unit 4
Day 77	Revision
Day 78	Revision
Day 79	Assignment of unit 2 & unit 3
Day 80	Test of unit 4
Day 81	Revision
Day 82	Revision
Day 83	Revision
Day 84	Revision
Day 85	Revision
Day 86	Revision
Day 87	Revision
Day 88	Revision
Day 89	Revision
Day 90	Revision

Name of the professor: Dr Sonam Ahuja

Class And Section: M.Sc(Maths) Previous

Subject: Operational Research

Day 1	Introduction of Operational Research
Day 2	Origin, definition and scope
Day 3	Linear Programming
Day 4	Formulation of Linear Programming
Day 5	Graphical Method
Day 6	Numericals based on Graphical method
Day 7	Numericals based on Graphical method
Day 8	Simplex Method
Day 9	Numericals on Simplex Method
Day 10	Numericals on Simplex Method
Day 11	Big -M Method
Day 12	Numericals on Big-M Method
Day 13	Numericals on Big-M Method
Day 14	Two-phase Method
Day 15	Numericals on two phase method
Day 16	Numericals on two phase method
Day 17	Degeneracy
Day 18	Duality in Linear Programming
Day 19	Related Problems
Day 20	Doubt Session of unit 1

Day 21	Intro to unit 2
Day 22	Transportation Problems
Day 23	Basic Feasible Solutions
Day 24	Numericals
Day 25	Numericals
Day 26	Optimum Solution by Stepping stone Method
Day 27	Modified distribution Methods
Day 28	Unbalanced and degenerate problems
Day 29	Transhipment Problem
Day 30	Numericals
Day 31	Assignment Problems
Day 32	Hungarian Method
Day 33	Numericals
Day 34	Unbalanced Problem
Day 35	Numericals
Day 36	Case of maximization
Day 37	Related Numericals
Day 38	Test of unit 1
Day 39	Travelling salesman problems
Day 40	Crew assignment Problems
Day 41	Numericals
Day 42	Doubt Session of unit 2
Day 43	Intro to unit 3
Day 44	Concepts of stochastic Processes

Day 45	Numericals
Day 46	Poisson Process
Day 47	Numericals
Day 48	Birth-death process
Day 49	Numericals
Day 50	Test of unit 2
Day 51	Queuing Models
Day 52	Basic Components of a queuing system
Day 53	Numericals
Day 54	Steady-state solution
Day 55	Markovian queuing models with single server
Day 56	Markovian queuing models with multiple servers
Day 57	M/M/1, M/M/C
Day 58	M/M/1/k, M/MC/k
Day 59	Doubt Session of unit 3
Day 60	Intro to unit 4
Day 61	Inventory control models
Day 62	Numericals
Day 63	Economic order quantity model
Day 64	EOQ model with uniform demand
Day 65	Assignment
Day 66	EOQ model when shortages are allowed
Day 67	EOQ with uniform replenishment
Day 68	Inventory control with price breaks

Day 69	Test of unit 3
Day 70	Game Theory
Day 71	Two person zero sum game
Day 72	Game with saddle points
Day 73	The rule of dominance
Day 74	Algebraic method for solving mixed strategy games
Day 75	Graphical method
Day 76	Linear programming method
Day 77	Numericals
Day 78	Numericals
Day 79	Doubt Session of unit 4
Day 80	Rev
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Name of the professor: Dr. Mamta Singh

Class and Section: B.Sc.(Med)
Semester-II
Subject: Zoology,Paper2.2(Genetics)

Day 1	**UNIT-I** Elements of Heredity and variations:Introduction,Mendel's work of Transmission of Traits
Day 2	Principles of Inheritance (Principle of Dominance,Principle of segregation
Day 3	Principle of Independent Assortment,Importance of Mendelism,Characteristics of Mendelism Inheritance
Day 4	The varieties of gene interactions:Epistatsis,Complementary Gene,Supplementary Gene
Day 5	Polymeric or Additive Gene,Inhibitory or Suppressor Genes,Duplicate Genes
Day 6	Lethal Genes,Polygenic Inheritance,Pleiotropy
Day 7	Linkage and recombination: Coupling and repulsion hypothesis
Day 8	Crossing-over and chiasma formation; gene mapping.
Day 9	Revision
Day 10	Test/Assignment
Day 11	**UNIT-II** Sex determination and its mechanism:Heterogametic male and female, Genic Balance Mechenism
Day 12	Role of Y –chromosome in Sex Determination, male haploidy, Environmental factors and role of hormones in sex determination.
Day 13	Topic continued
Day 14	Sex linked inheritance: Haemophilia and colour blindness in man, eye colour in Drosophila
Day 15	Non-disjunction of sex-chromosome in Drosophila; Sex-linked and sex influenced inheritance
Day 16	Extra chromosomal and cytoplasmic inheritance: Kappa particles in Paramecium, Shell
Day 17	Revision
Day 18	Test Assignment
Day 19	**UNIT-III** Multiple allelism: Eye colour in Drosophila; A, B, O blood group in man.
Day 20	Human genetics: Human karyotype, Chromosomal abnormalities involving autosomes and sex chromosomes, monozygotic and dizygotic twins.
Day 21	Inborn errors of metabolism (Alcaptonuria, Phenylketonuria, Albinism, sickle-cell anaemia).
Day 22	Revision
Day 23	Test/Assignment
Day 24	**UNIT-IV** Nature and function of genetic material; Structure and type of nucleic acids.
Day 25	Protein synthesis spontaneous and induced (chemical and radiations)

	mutations
Day 26	gene mutations; chemical basis of mutations; transition, transversion
Day 27	Topic Continued
Day 28	Structural chromosomal aberrations (deletion, duplication, inversion and translocation)
Day 29	Topic continued
Day 30	Numerical aberrations (autoploidy, euploidy and polyploidy in animals)
Day 31	Topic continued
Day 32	Applied genetics: Eugenics, euthenics and euphenics
Day 33	Topic continued
Day 34	Genetic counseling, pre-natal diagnostics
Day 35	Topic continued
Day 36	DNA-finger printing, transgenic animals
Day 37	Topic continued
Day 38	Revision
Day 39	Test/Assignment
Day 40	Revision
Day 41	Revision
Day 42	Revision
Day 43	Revision
Day 44	Revision
Day 45	Test/Assignment
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Name of the professor: Dr. Mamta Singh

Class and Section: B.Sc.(Med)
Semester-II
Subject: Zoology,Paper2.1(Life and Diversity from Annelida to Hemichordata)

Day 1	**UNIT-I Phylum - Annelida**: General characters and classification up to order level
Day 2	Topic continued
Day 3	Biodiversity and economic importance of Annelida
Day 4	**Type study - Pheretima (Earthworm)**:Habitat, Habits, External morphology, Body Wall, Coelom
Day 5	Locomotion, Digestive system, Histology of gut wall and physiology
Day 6	Circulatory System, Respiratory system
Day 7	Excretory System. Nervous System
Day 8	Sense organs and Reproductive System (Male&Female),Copulation
Day 9	Cocoon formation,Fertilization&Development,Regeneration,Adaptations,Economic Importance
Day 10	Annelida: Metamerism, Trochophore Larva
Day 11	Test/Assignment
Day 12	**Unit -II Phylum - Arthropoda**: General characters and classification up to order level
Day 13	Biodiversity and economic importance of insects
Day 14	**Type study – Periplaneta americana:**Habitat,Habits,External Morphology,Body Wall
Day 15	Digestive System,Respiratory System
Day 16	Circulatory system,Exccretory System
Day 17	Nervous System,Sense Organs
Day 18	Reproductive System(male &female),Life history
Day 19	Test/Assignment
Day 20	**Unit –III Phylum - Mollusca:** General characters and classification up to order level
Day 21	Biodiversity and economic importance, **Type study- Pila:**Habitat,Habits
Day 22	External Morphology,Mantle or Pallium,Mantle Cavity& Pallial Complex,Locomotion
Day 23	Digestive system and its Physiology, Respiratory System and its Machanism
Day 24	Blood Vascular System, Excretory System
Day 25	Nervous system ,Sense organs
Day 26	Reproductive System, copulation, Fertilization and Ovulation
Day 27	Torsion and Detorsion in Gastropoda,Respiration and Foot in Mollusca
Day 28	Topic continued
Day 29	Test/Assignment
Day 30	**Unit-IV Phylum - Echinodermata**: General characters and classification

	up to order level
Day 31	Topic continued
Day 32	Biodiversity and economic importance, **Type Study** -Asteries (Sea Star):Habitat,Habits,External Morphology
Day 33	Body Wall,Endoskeleton,Coelom
Day 34	Digestive System, Water Vascular System
Day 35	
Day 36	Locomotion,Circulatory System,Respiratory System
Day 37	Excretory and Nervous System,Sense organs
Day 38	Reproductive System, Life history and Development,Regeneration and Autotomy
Day 39	Echinoderm larvae, Aristotle's Lantern
Day 40	Test /Assignment
Day 41	**Phylum – Hemichordata**: General Characters,Classification and Affinities, **Type study**: Balanoglossus:Habitat and Habits,External Features
Day 42	Body wall,coelom,Skeleton, Digestive System and its physiology,Respiratory system
Day 43	Blood Vascular System, Excretory, Nervous and Reproductive systems
Day 44	Revision
Day 45	Test/Assignment
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Name of the professor:Ms.Kajal bhatia **ClassAndSection:B.Sc.(Non-Med.) 4th sem** **Subject:Optics 2(PH04)**	
Day 1	Introduction about syllabus
Day 2	Physics practical
Day 3	Interference by division of amplitude
Day 4	Colour of thin films
Day 5	Wedge shaped film
Day 6	Newtons's ring
Day 7	Test
Day 8	Michelson's interferometer
Day 9	**Application of interferometers**
Day 10	Test
Day 11	Fresnel's diffraction
Day 12	Fresnel's half period zones
Day 13	Zone plate
Day 14	Diffraction at straight edge
Day 15	Rectangular slit
Day 16	Circular aperture
Day 17	Fraunhoffer diffraction
Day 18	One slit diffraction
Day 19	Two slit diffraction
Day 20	N slit diffraction
Day 21	Plane transmission grating spectrum
Day 22	Dispersive power of grating
Day 23	Limit of resolution
Day 24	Rayleigh's criterion
Day 25	Resolving power of telescope
Day 26	Revision
Day 27	Numaericalprcatise

Day 28	Test
Day 29	Resolving power of grating
Day 30	Polarization
Day 31	Double refraction
Day 32	Polarization by reflection
Day 33	Polarization by scattering
Day 34	Malus law
Day 35	Phenomenon of double refraction
Day 36	Huygen's wave theory of double refraction(normal and oblique incidence)
Day 37	Analysis of polarization of light
Day 38	Nicolprism,quarter wave plate and half wave plate
Day 39	Production and detection of plane polarisd light
Day 40	Circularly polarized light, Elliptically polarized light
Day 41	Optical activity,fresnel's theory of rotation
Day 42	Specific rotation, Polarimeter(half shade and biquartz)
Day 43	Revision
Day 44	Revision
Day 45	Revision

Name of the professor: Ms. Reeta Kumari **ClassAndSection:B.Sc.(Non-Med.) 6th sem** **Subject:Atomic, Molecular And Laser Physics**	
Day 1	Introduction about first chapter
Day 2	Vector atom model
Day 3	**Quantum numbers associated with vector atom model**
Day 4	Penetrating and non-penetrating orbits
Day 5	Spectral lines in different series of alkali metals
Day 6	Spin orbit interaction and doublet term separation
Day 7	Spin orbit interaction and doublet term separation
Day 8	Coupling scheme
Day 9	Test
Day 10	LS Coupling
Day 11	jj coupling
Day 12	Assignment
Day 13	Zeeman effect
Day 14	Normal Zeeman effect
Day 15	Anomalous Zeeman effect
Day 16	Zeeman pattern of D1 and D2 lines of Na atom
Day 17	Paschen back effect of single valance electron system

Day 18	Weak field stark effect of hydrogen atom
Day 19	Discrete set of electronic energies of molecules
Day 20	Numerical Practice
Day 21	QUANTISATION OF VIBRATIONAL ENERGIES
Day 22	QUANTISATION OF ROTATIONAL ENERGIES
Day 23	Revision
Day 24	Test
Day 25	Raman effect
Day 26	Stoke's and anti-stoke's lines
Day 27	Main features of laser: directionality
Day 28	Main features of laser: high intensity
Day 29	Main features of laser: high degree of coherence
Day 30	Spatial coherence,temporal coherence
Day 31	Main features of laser: high intensity
Day 32	Main features of laser: high degree of coherence
Day 33	Spatial coherence,temporal coherence
Day 34	Revision
Day 35	Numerical practice
Day 36	Life time of level, kinetics of optical absorption
Day 37	Threshold condition for laser emission
Day 38	Laser pumping
Day 39	He-Ne laser
Day 40	Ruby laser
Day 41	revision
Day 42	Applications of laser
Day 43	Revision
Day 44	Revision
Day 45	Revision

Name of the professor: Ms. Reeta kumari

Class And Section: B.Sc. Biotechnology 2nd Semester

Subject: Biostatistics

Day 1	
Day 2	
Day 3	Introduction- Relation between roots and coefficients of algebraic equations
Day 4	Solution of Cubic equations
Day 5	Problem based
Day 6	
Day 7	
Day 8	
Day 9	Problem based
Day 10	Permutation and Combination
Day 11	Problem based
Day 12	
Day 13	
Day 14	
Day 15	Problem based
Day 16	Binomial theorem
Day 17	Problem based
Day 18	
Day 19	
Day 20	

Day 21	Logarithm Definition
Day 22	Laws of logarithm
Day 23	Use of log table
Day 24	
Day 25	
Day 26	
Day 27	Problem based
Day 28	Introduction to Trigonometry
Day 29	Trigonometric Identities
Day 30	
Day 31	
Day 32	
Day 33	Problem based
Day 34	Introduction to Matrices
Day 35	Elementary operations
Day 36	
Day 37	
Day 38	
Day 39	Problem based
Day 40	Problem based
Day 41	Problem based
Day 42	
Day 43	
Day 44	

Day 45	Test
Day 46	Functions
Day 47	Limits of functions
Day 48	
Day 49	
Day 50	
Day 51	Problem based
Day 52	Derivatives of functions
Day 53	Differentiation
Day 54	
Day 55	
Day 56	
Day 57	Problem based
Day 58	Problem based
Day 59	Integration
Day 60	
Day 61	
Day 62	
Day 63	Problem based
Day 64	Problem based
Day 65	Applications of Differentiation
Day 66	
Day 67	
Day 68	

Day 69	Problem based
Day 70	Applications of Integration
Day 71	Problem based
Day 72	
Day 73	
Day 74	
Day 75	Test
Day 76	Doubts
Day 77	Doubts
Day 78	
Day 79	
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Day 81	Revision
Day 82	Revision
Day 83	Revision
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Day 87	Revision
Day 88	Revision
Day 89	Revision
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Name of the professor: Ms. Sweta

Class And Section: BSc Medical 4th Sem

Subject: Plant Embryology
Paper code : 4.2

Day 1	Introduction of Syllabus
Day 2	Parts of Flower
Day 3	Inflorescence
Day 4	Different types of Inflorescence
Day 5	Aestivation and types of Placentation
Day 6	Microsporangium: Structure and development of Pollen sac
Day 7	Dehiscence mechanism of microsporangium
Day 8	Structure of pollen grains and microsporogenesis
Day 9	Structure of pollen grains and microsporogenesis
Day 10	Test
Day 11	Development of Male gametophytes
Day 12	Pollen- pistil interaction
Day 13	Self incompatibility
Day 14	Assignment 1
Day 15	Types of Pollination
Day 16	Structure of Megasporangium (ovule)
Day 17	Types of Ovules
Day 18	Revision of Ovules
Day 19	Megasporogenesis and Megagametogenesis
Day 20	Development of Female gametophytes
Day 21	Test
Day 22	Types of Female gametophytes
Day 23	Double fertilization
Day 24	Endosperm development and its types
Day 25	Biological importance of Endosperm
Day 26	Embryogenesis in Dicot and Monocot plant
Day 27	Polyembryony
Day 28	Assignment 2
Day 29	Polyembryony
Day 30	Oral test
Day 31	Development of Seed
Day 32	Structure of Dicot and Monocot seed
Day 33	Revision of Types of Ovules
Day 34	Fruit Types
Day 35	Test
Day 36	Revision of Polyembryony
Day 37	Dispersal mechanism in fruits and seeds

Day 38	Dispersal mechanism in fruits and seeds
Day 39	Revision
Day 40	Oral Test
Day 41	Revision
Day 42	Assignment
Day 43	PPT presentation
Day 44	Revision
Day 45	Revision
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Name of the professor: Ms. Sweta

Class And Section: BSc Medical 4th Sem

Subject: Biology and diversity of seed Plants 2

Paper code: 4.1

Day 1	**TOPIC TO BE COVERED**
Day 2	Introduction about the syllabus.
Day 3	Taxonomy and some important terms related to taxonomy
Day 4	Fundamental components of taxonomy
Day 5	Aims and objectives to study taxonomy
Day 6	Role of chemotaxonomy
Day 7	Role of cytotaxonomy
Day 8	Role of numerical taxonomy / taximetrics
Day 9	Phenogram and Cladogram
Day 10	Nomenclature, Principles and rules
Day 11	Principle of priority
Day 12	Type concept, different types in taxonomy

Day 13	Test
Day 14	Identification of plant, herbarium description
Day 15	Keys of identifications
Day 16	Systems of classification
Day 17	Bentham and Hookers system of classification
Day 18	Engler and Prantle system of classification
Day 19	Engler and Prantle system of classification
Day 20	Description of floral terms
Day 21	Description of floral terms
Day 22	Inflorescence and its types
Day 23	Test
Day 24	Explanation about the various parts of plant
Day 25	Explanation of floral diagram
Day 26	Description of Ranunculaceae
Day 27	Description of Brassicaceae
Day 28	Description of Malvaceae
Day 29	Description of Euphorbiaceae
Day 30	Description of Rutaceae
Day 31	Description of Fabaceae
Day 32	Description of cucurbitiaceae
Day 33	Description of Apiaceae
Day 34	Description of Asclepediaceae
Day 35	Description of Lamiaceae
Day 36	Description of Solanaceae
Day 37	Test

Day 38	Description of Asteraceae
Day 39	Description of Liliaceae
Day 40	Test
Day 41	Revision
Day 42	Revision
Day 43	Doubt session
Day 44	Doubt session
Day 45	Doubt session
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Name of the professor: Ms. Anita **Class And Section: B.Sc. Med** **Semester: 2nd** **Subject: Organic Chemistry** **Paper code : CH202**	
Day 1	**Unit 1 - Alkenes :**Nomenclature of alkenes, , mechanisms of dehydration of alcohols and dehydrohalogenation of alkyl halides
Day 2	The Saytzeff rule, Hofmann elimination, physical properties and relative stabilities of alkenes
Day 3	Chemical reactions of alkenes , mechanisms involved in hydrogenation, electrophilic and free radical additions,
Day 4	Markownikoff's rule, hydroboration–oxidation, oxymercuration reduction
Day 5	Revision
Day 6	Revision
Day 7	Doubt Class
Day 8	Test / Assignment
Day 9	**Unit 2 - Arenes and Aromaticity** Nomenclature of benzene derivatives:. Aromatic nucleus and side chain. Aromaticity: the Huckel rule, aromatic ions
Day 10	Annulenes up to 10 carbon atoms, aromatic, anti - aromatic and non – aromatic compounds
Day 11	Aromatic electrophilic substitution, general pattern of the mechanism, mechanism of nitration,
Day 12	Energy profile diagrams. Activating , deactivating substituents and orientation.
Day 13	Test / Assignment
Day 14	**Unit 3 -** Nomenclature and classification of dienes: isolated, conjugated and cumulated dienes.
Day 15	Structure of butadiene,. Chemical reactions 1,2 and 1,4 additions (Electrophilic & free radical mechanism),
Day 16	Diels-Alder reaction, Nomenclature, structure and bonding in alkynes.

Day 17	Methods of formation. Chemical reactions of alkynes, acidity of alkynes
Day 18	Hydroboration - oxidation of alkynes
Day 19	Structure of butadiene,. Chemical reactions 1,2 and 1,4 additions (Electrophilic & free radical mechanism),
Day 20	Methods of formation. Chemical reactions of alkynes, acidity of alkynes, Hydroboration - oxidation of alkynes
Day 21	Revision
Day 22	Test / Assignment
Day 23	**Unit 4 -** Nomenclature and classes of alkyl halides, methods of formation,
	chemical reactions.
Day 24	Mechanisms and stereochemistry of nucleophilic substitution reactions of alkyl halides , SN2 and SN1reactions with energy profile diagrams
Day 25	Methods of formation and reactions of aryl halides,
Day 26	The addition - elimination and the elimination-addition mechanisms of nucleophilic aromatic substitution reactions.
Day 27	Relative reactivities of alkyl halides vs allyl, vinyl and aryl halides.
Day 28	Revision
Day 29	Revision
Day 30	Test

Name of the professor: Ms. Anita **Class And Section: B.Sc. NM , 2nd Semester** **Subject: Organic Chemistry**	
Day 1	**Unit 1 - Alkenes :**Nomenclature of alkenes, , mechanisms of dehydration of alcohols and dehydrohalogenation of alkyl halides
Day 2	The Saytzeff rule, Hofmann elimination, physical properties and relative stabilities of alkenes
Day 3	Chemical reactions of alkenes , mechanisms involved in hydrogenation, electrophilic and free radical additions,
Day 4	Markownikoff's rule, hydroboration–oxidation, oxymercuration reduction
Day 5	Revision
Day 6	Revision
Day 7	Doubt Class
Day 8	Test / Assignment

Day 9	**Unit 2 - Arenes and Aromaticity** Nomenclature of benzene derivatives:. Aromatic nucleus and side chain. Aromaticity: the Huckel rule, aromatic ions
Day 10	Annulenes up to 10 carbon atoms, aromatic, anti - aromatic and non – aromatic compounds
Day 11	Aromatic electrophilic substitution, general pattern of the mechanism, mechanism of nitration,
Day 12	Energy profile diagrams. Activating , deactivating substituents and orientation.
Day 13	Test / Assignment
Day 14	**Unit 3 -** Nomenclature and classification of dienes: isolated, conjugated and cumulated dienes.
Day 15	Structure of butadiene,. Chemical reactions 1,2 and 1,4 additions (Electrophilic & free radical mechanism),
Day 16	Diels-Alder reaction, Nomenclature, structure and bonding in alkynes.
Day 17	Methods of formation. Chemical reactions of alkynes, acidity of alkynes
Day 18	Hydroboration - oxidation of alkynes
Day 19	Structure of butadiene,. Chemical reactions 1,2 and 1,4 additions (Electrophilic & free radical mechanism),
Day 20	Methods of formation. Chemical reactions of alkynes, acidity of alkynes, Hydroboration - oxidation of alkynes
Day 21	Revision
Day 22	Test / Assignment
Day 23	**Unit 4 -** Nomenclature and classes of alkyl halides, methods of formation,
	chemical reactions.
Day 24	Mechanisms and stereochemistry of nucleophilic substitution reactions of alkyl halides , SN2 and SN1reactions with energy profile diagrams
Day 25	Methods of formation and reactions of aryl halides,
Day 26	The addition - elimination and the elimination-addition mechanisms of nucleophilic aromatic substitution reactions.
Day 27	Relative reactivities of alkyl halides vs allyl, vinyl and aryl halides.
Day 28	Revision
Day 29	Revision
Day 30	Test

Name of the professor: Ms. Anita

Class And Section: B.Sc. 4th Sem.
(Non.Med.)

Subject: Physical Chemistry

Day 1	**Unit 1 - Thermodynamics-III** Second law of thermodynamics, need for the law, different statements of the law, Carnot's cycles and its efficiency
Day 2	Carnot's theorem, Thermodynamics scale of temperature.
Day 3	Concept of entropy – entropy as a state function, entropy as a function of V & T, entropy as a function of P & T
Day 4	Entropy change in physical change, entropy as a criteria of spontaneity and equilibrium.
Day 5	Entropy change in ideal gases and mixing of gases.
Day 6	Revision
Day 7	Test / Assignment
Day 8	**Unit 2 - Thermodynamics-IV** Third law of thermodynamics: Nernst heat theorem
Day 9	Statement of concept of residual entropy, evaluation of absolute entropy from heat capacity data
Day 10	Gibbs and Helmholtz functions; Gibbs function (G) and Helmholtz function (A) as thermodynamic quantities
Day 11	A & G as criteria for thermodynamic equilibrium and spontaneity, their advantage over entropy change.
Day 12	Variation of G and A with P, V and T.
Day 13	Revision
Day 14	Test / Assignment
Day 15	**Unit 3 - Electrochemistry-III** Electrolytic and Galvanic cells – reversible & Irreversible cells , conventional representation of electrochemical cells
Day 16	EMF of cell and its measurement, Weston standard cell, activity and activity coefficients.
Day 17	Calculation of thermodynamic quantities of cell reaction (G, H & K).
Day 18	Types of reversible electrodes – metal-metal, ion gas electrode, metal – insoluble salt- anion and redox electrodes.
Day 19	Electrode reactions, Nernst equations, derivation of cell EMF and single electrode potential.
Day 20	Standard Hydrogen electrode, reference electrodes
Day 21	Standard electrodes potential, sign conventions, electrochemical series and its applications.
Day 22	Revision
Day 23	Test / Assignment
Day 24	**Unit 4 - Electrochemistry-IV** Concentration cells with and without transference, liquid junction potential
Day 25	Application of EMF measurement i.e. valency of ions, solubility product activity coefficient

Day 26	Potentiometric titration (acid- base and redox)
Day 27	Determination of pH using Hydrogen electrode, Quinhydrone electrode and glass electrode by potentiometric methods.
Day 28	Revision
Day 29	Doubt Class
Day 30	Test / Assignment

Name of Professor : Ms. Ranjana

Class And Section: B.Sc. Biotech III year

Subject: Inorganic Chemistry, BT-(607)

Day 1	M	
Day 2	T	
Day 3	W	
Day 4	TH	
Day 5	F	Intoduction of Organometallic Chemistry
Day 6	S	nomenclature and classification of organometallic compounds
Day 7	M	
Day 8	T	
Day 9	W	
Day 10	TH	
Day 11	F	Preparation, properties, and bonding of alkyls of Li& Al.
Day 12	S	Preparation, properties, and bonding of alkyls of Hg, and Sn.
Day 13	M	

Day 14	T	
Day 15	W	
Day 16	TH	
Day 17	F	metal-ethylenic complexes & mononuclear carbonyls.
Day 18	S	nature of bonding in metal carbonyls.
Day 19	M	
Day 20	T	
Day 21	W	
Day 22	TH	
Day 23	F	Assignment
Day 24	S	Introduction of Acids and Bases Arrhenius, Bronsted – Lowry.
Day 25	M	
Day 26	T	
Day 27	W	
Day 28	TH	
Day 29	F	The Lux – Flood, Solvent system and Lewis concepts of acids & bases,
Day 30	S	Relative strength of acids & bases, Concept of Hard and Soft Acids & Bases.
Day 31	M	
Day 32	T	
Day 33	W	
Day 34	TH	
Day 35	F	TEST
Day 36	S	Symbiosis, electronegativity and hardness and softness.
Day 37	M	

Day 38	T	
Day 39	W	
Day 40	TH	
Day 41	F	Introduction Of Bioinorganic Chemistry , Essential and trace elements
Day 42	S	metalloporphyrins with special reference to haemoglobin
Day 43	M	
Day 44	T	
Day 45	W	
Day 46	TH	
Day 47	F	metalloporphyrins with special reference to myoglobin
Day 48	S	Assignment
Day 49	M	
Day 50	T	
Day 51	W	
Day 52	TH	
Day 53	F	Biological role of alkali and alkaline earth metal ions with special reference to Ca2+.
Day 54	S	Nitrogen fixation
Day 55	M	
Day 56	T	
Day 57	W	
Day 58	TH	
Day 59	F	Introduction of Silicones & their preparation.
Day 60	S	Silicones & their properties.
Day 61	M	

Day 62	T	
Day 63	W	
Day 64	TH	
Day 65	F	Silicones & their structure and uses.
Day 66	S	Introduction of phosphazenes & their preparation
Day 67	M	
Day 68	T	
Day 69	W	
Day 70	TH	
Day 71	F	phosphazenes & their properties
Day 72	S	phosphazenes & their structure and uses.
Day 73	M	
Day 74	T	
Day 75	W	
Day 76	TH	
Day 77	F	Doubt class
Day 78	S	Test
Day 79	M	
Day 80	T	
Day 81	W	
Day 82	TH	
Day 83	F	Discussion of previous year question paper.
Day 84	S	Revision
Day 85	M	

Day 86	T	
Day 87	W	
Day 88	TH	
Day 89	F	Revision
Day 90	S	Revision

Name of Professor : Ms. Ranjana

Class :B.Sc Biotech VI Sem

Subject: Physical Chemistry (BT-605)

Day 1	M	Introduction of Electronic Spectrum
Day 2	T	Concept of potential energy curves for bonding and antibonding molecular orbitals
Day 3	W	
Day 4	TH	
Day 5	F	
Day 6	S	
Day 7	M	qualitative description of selection rules and Franck- Condon principle
Day 8	T	Qualitative description of sigma and pie and n molecular orbital (MO) energy level.
Day 9	W	

Day 10	TH	
Day 11	F	
Day 12	S	
Day 13	M	Qualitative description of sigma and pie and n molecular orbital (MO) their energy level and respective transitions
Day 14	T	Introduction of Photochemistry
Day 15	W	
Day 16	TH	
Day 17	F	
Day 18	S	
Day 19	M	Interaction of radiation with matter, difference between thermal and photochemical processes
Day 20	T	Laws of photochemistry: Grotthus-Drapper law & StarkEinstein law
Day 21	W	
Day 22	TH	
Day 23	F	
Day 24	S	
Day 25	M	TEST
Day 26	T	Jablonski diagram depiciting various processes occurring in the excited state
Day 27	W	
Day 28	TH	
Day 29	F	
Day 30	S	
Day 31	M	Qualitative description of fluorescence, phosphorescence & non-radiative processes.

Day 32	T	Quantum yield, photosensitized reactions-energy transfer processes
Day 33	W	
Day 34	TH	
Day 35	F	
Day 36	S	
Day 37	M	Introduction of Dilute Solutions and Colligative Properties
Day 38	T	Ideal and non-ideal solutions, methods of expressing concentrations of solutions
Day 39	W	
Day 40	TH	
Day 41	F	
Day 42	S	
Day 43	M	Define activity and activity coefficient. Dilute solution,Colligative properties.
Day 44	T	Raolut's law, relative lowering of vapour pressure.
Day 45	W	
Day 46	TH	
Day 47	F	
Day 48	S	
Day 49	M	molelcular weight determination, Osmosis law of osmotic pressure and its measurement, determination of molecular weight from osmotic pressure.
Day 50	T	Assignment
Day 51	W	
Day 52	TH	
Day 53	F	
Day 54	S	

Day 55	M	Elevation of boiling point and depression of freezing point
Day 56	T	Thermodynamic derivation of relation between molecular weight and elevation in boiling point
Day 57	W	
Day 58	TH	
Day 59	F	
Day 60	S	
Day 61	M	Thermodynamic derivation of relation between molecular weight and depression in freezing point.
Day 62	T	Experimental methods for determining various colligative properties.
Day 63	W	
Day 64	TH	
Day 65	F	
Day 66	S	
Day 67	M	Abnormal molar mass, degree of dissociation and association of solutes.& Assignment.
Day 68	T	Introduction of Phase Equillibrium & Statement and meaning of the terms – phase component and degree of freedom.
Day 69	W	
Day 70	TH	
Day 71	F	
Day 72	S	
Day 73	M	thermodynamic derivation of Gibbs phase rule& phase equilibria of one component system –Example – water system
Day 74	T	TEST
Day 75	W	

Day 76	TH	
Day 77	F	
Day 78	S	
Day 79	M	phase equilibria of one component system -Sulpher systems
Day 80	T	Phase equilibria of two component systems solid-liquid equilibria.
Day 81	W	
Day 82	TH	
Day 83	F	
Day 84	S	
Day 85	M	simple eutectic Example of Pb-Ag system & desilerisation of lead.
Day 86	T	Discussion of previous year question paper.
Day 87	W	
Day 88	TH	
Day 89	F	
Day 90	S	

Name of Professor : Ms. Ranjana

Class And Section: B.Sc Biotech Ist year

Subject: Physical Chemistry, BT-(205)

Day 1	M	
Day 2	T	Introduction of Chemical kinetics
Day 3	W	
Day 4	TH	
Day 5	F	
Day 6	S	Rate of reaction & rate equation
Day 7	M	
Day 8	T	factors influencing the rate of a reaction on concentration & temperature
Day 9	W	
Day 10	TH	
Day 11	F	
Day 12	S	factors influencing the rate of a reaction on pressure, solvent, light & catalyst
Day 13	M	
Day 14	T	Order of a reaction
Day 15	W	
Day 16	TH	
Day 17	F	
Day 18	S	Integrated rate expression for zero order
Day 19	M	
Day 20	T	Integrated rate expression for first order

Day 21	W	
Day 22	TH	
Day 23	F	
Day 24	S	Integrated rate expression for second and third order reaction
Day 25	M	
Day 26	T	Half life period of a reaction
Day 27	W	
Day 28	TH	
Day 29	F	
Day 30	S	Methods of determination of order of reaction
Day 31	M	
Day 32	T	Kinetics-II - Effect of temperature on the rate of reaction
Day 33	W	
Day 34	TH	
Day 35	F	
Day 36	S	ASSIGNMENT
Day 37	M	
Day 38	T	Effect of temperature on the rate of reaction Arrhenius equation.
Day 39	W	
Day 40	TH	
Day 41	F	
Day 42	S	Test
Day 43	M	
Day 44	T	Theories of reaction rate – Simple collision theory for unimolecular collision.

Day 45	W	
Day 46	TH	
Day 47	F	
Day 48	S	Theories of reaction rate – Simple collision theory for reaction bimolecular collision.
Day 49	M	
Day 50	T	
Day 51	W	
Day 52	TH	
Day 53	F	
Day 54	S	Transition state theory of Bimolecular reaction.
Day 55	M	
Day 56	T	Discuss on chemical kinetics I & CHEMICAL KINETICS -II
Day 57	W	
Day 58	TH	
Day 59	F	
Day 60	S	Introduction of Electrochemistry & Electrolytic conduction, factors affecting electrolytic conduction
Day 61	M	
Day 62	T	specific, conductance, molar conductance conductance,equivalent conductance and relation among them & Assignment.
Day 63	W	
Day 64	TH	
Day 65	F	Arrhenius theory of ionization& Ostwald's Dilution Law Debye-Huckel – Onsager's equation for strong electrolytes

Day 66	S	
Day 67	M	
Day 68	T	Debye-Huckel – Onsager's equation for strong electrolytes& Debye-Huckel – Onsager's equation for strong electrolytes.
Day 69	W	
Day 70	TH	
Day 71	F	Explain Kohlarausch's Law And calculation of molar ionic & effect of viscosity temperature & pressure on it.
Day 72	S	
Day 73	M	
Day 74	T	Application of Kohlarausch's Law in calculation of conductance of weak electrolytes at infinite diloution.
Day 75	W	
Day 76	TH	
Day 77	F	Applications of conductivity measurements: determination of degree of dissociation
Day 78	S	
Day 79	M	
Day 80	T	TEST
Day 81	W	
Day 82	TH	
Day 83	F	determination of Ka of acids determination of solubility product o f springly soluble salts, conductometric titrations.
Day 84	S	

Day 85	M	
Day 86	T	Definition of pH and pKa, Buffer solution, Buffer action.
Day 87	W	
Day 88	TH	
Day 89	F	Henderson – Hazel equation & Buffer mechanism of buffer action.
Day 90	S	

Name of Professor : Ms. Ranjana

Class And Section: B.Sc Biotech II year

Subject: Physical Chemistry, BT-(405)

Day 1	M	Introduction Of Second law of thermodynamics.
Day 2	T	need for the law, different statements of the law.
Day 3	W	Carnot's cycles and its efficiency
Day 4	TH	
Day 5	F	
Day 6	S	
Day 7	M	Carnot's theorm, & Thermodynamics scale of temperature.
Day 8	T	Concept of entropy – entropy as a state function
Day 9	W	entropy as a function of V & T
Day 10	TH	
Day 11	F	
Day 12	S	
Day 13	M	entropy as a function of P & T.
Day 14	T	entropy change in physical change, entropy as a criteria of spontaneity and equilibrium.
Day 15	W	Entropy change in ideal gases and mixing of gases.
Day 16	TH	
Day 17	F	
Day 18	S	
Day 19	M	Introduction of Third law of thermodynamics
Day 20	T	Nernst heat theorem, statement of concept of residual entropy.

Day 21	W	Assignment
Day 22	TH	
Day 23	F	
Day 24	S	
Day 25	M	evaluation of absolute entropy from heat capacity data
Day 26	T	Test
Day 27	W	Gibbs function (G) and Helmholtz function (A) as thermodynamic quantities, A & G as criteria for thermodynamic equilibrium and spontaneity
Day 28	TH	
Day 29	F	
Day 30	S	
Day 31	M	Gibbs function (G) and Helmholtz function (A) : advantage over entropy change
Day 32	T	Variation of G and A with P, V and T.
Day 33	W	Variation of G and A with P, V and T cont.
Day 34	TH	
Day 35	F	
Day 36	S	
Day 37	M	Electrolytic and Galvanic cells – reversible & Irreversible cells
Day 38	T	EMF of cell and its measurement
Day 39	W	Assignment
Day 40	TH	
Day 41	F	
Day 42	S	
Day 43	M	Weston standard cell
Day 44	T	activity and activity coefficients
Day 45	W	Calculation of thermodynamic quantities of cell reaction (ŸG, ŸH & K).
Day 46	TH	
Day 47	F	
Day 48	S	
Day 49	M	Test
Day 50	T	Types of reversible electrodes – metal- metal ion gas electrode
Day 51	W	metal –insoluble salt- anion and redox electrodes
Day 52	TH	
Day 53	F	
Day 54	S	
Day 55	M	Electrode reactions, Nernst equations
Day 56	T	derivation of cell EMF and single electrode potential
Day 57	W	Standard Hydrogen electrode, reference electrodes
Day 58	TH	
Day 59	F	
Day 60	S	
Day 61	M	standard electrodes potential, sign conventions, electrochemical series and its applications.
Day 62	T	Concentration cells with transference

Day 63	W	Concentration cells without transference
Day 64	TH	
Day 65	F	
Day 66	S	
Day 67	M	liquid junction potential
Day 68	T	application of EMF measurement i.e. valency of ions,
Day 69	W	solubility product activity coefficient
Day 70	TH	
Day 71	F	
Day 72	S	
Day 73	M	Potentiometric titration (acid- base and redox).
Day 74	T	Determination of pH using Hydrogen electrode
Day 75	W	Quinhydrone electrode.
Day 76	TH	
Day 77	F	
Day 78	S	
Day 79	M	glass electrode by potentiometric methods.
Day 80	T	Doubt class
Day 81	W	Test
Day 82	TH	
Day 83	F	
Day 84	S	
Day 85	M	Discussion of Previous year question paper
Day 86	T	Revision
Day 87	W	Revision
Day 88	TH	
Day 89	F	
Day 90	S	

Name of the professor: Ms Priyanka Bhatia **Class And Section: Bsc Med Third yr** **Subject: Organic Chemistry** **Paper code :CH602**	
Day 1	Introduction to Heterocyclic compounds-1
Day 2	Molecular orbital picture and Aromatic charcateristics of pyrrole,furan,thiophene
Day 3	Methods of synthesis of pyrrole,furan
Day 4	Methods of synthesis of thiophene and chemical reactions
Day 5	Mechanism of electrophilic and nucleophilic substitution
Day 6	Pyridine and its aromatic character
Day 7	Methods of synthesis and recations of pyridine
Day 8	Comparison of basicity of pyridine,piperidine and pyrrole.
Day 9	Test of unit1
Day 10	Introduction to condensed five and six membered heterocycles
Day 11	Preparation of indole Fisher indole synthesis
Day 12	Preparation of quinoline Skraup synthesis
Day 13	Preparation of isoquinoline Bischler Napieralski synthesis
Day 14	Mechanism of electrophilic and nucleophilic reaction
Day 15	Test of Unit-2
Day 16	Nomenclature of organosulphur compounds,structural features
Day 17	Methods of formation and chemical reactions of thiols,thioethers
Day 18	Sulphonic acids,sulphonamides and sulphaguanidine
Day 19	Synthetic detergents alkyl and aryl sulphonates
Day 20	Test of unit-3
Day 21	Introduction to Enolates ,acidity of alpha hydrogens
Day 22	Alkylation of diethyl malonate and different synthesis of compounds
Day 23	Synthesis of ethyl acetoacetate- Claisen Condensation
Day 24	Alkylation of ethyl acetoacetate and organic synthesis
Day 25	Keto-enol tautomerism of ethyl acetoacetate
Day 26	Test of Unit-4
Day 27	Addition and condensation polymerization
Day 28	Free radical,ionic vinyl polymerisation
Day 29	Ziegler -Natta polymerisation,Vinyl polymers
Day 30	Polyesters,polyamides,phenolformaldehyde resins
Day 31	Urea formaldehyde resins,epoxy resins and polyurethanes
Day 32	Natural and synthetic rubbers
Day 33	Assignment

Day 34	Classification of amino acids,Acid base behavior,isoelectric point
Day 35	Electrophoresis, Preparation of amino acids
Day 36	Structures and nomenclature of peptides and proteins,classification of proteins
Day 37	Peptide structure determination ,end group analysis,selective hydrolysisof peptides
Day 38	Classical peptide synthesis,solid phase peptide synthesis
Day 39	Primary and secondary structure
Day 40	Test of unit-5,6
Day 41	Revision
Day 42	Revision
Day 43	Doubt class
Day 44	Doubt class
Day 45	Revision
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Name of the professor: Ms Priyanka Bhatia **Class And Section: Bsc Non Medical** **Third yr** **Subject: Organic Chemistry**	
Day 1	Introduction to Heterocyclic compounds-1
Day 2	Molecular orbital picture and Aromatic charcateristics of pyrrole,furan,thiophene
Day 3	Methods of synthesis of pyrrole,furan
Day 4	Methods of synthesis of thiophene and chemical reactions
Day 5	Mechanism of electrophilic and nucleophilic substitution
Day 6	Pyridine and its aromatic charcater
Day 7	Methods of synthesis and recations of pyridine
Day 8	Comparison of basicity of pyridine,piperidine and pyrrole.
Day 9	Test of unit1
Day 10	Introduction to condensed five and six membered heterocycles
Day 11	Preparation of indole Fisher indole synthesis
Day 12	Preparation of quinoline Skraup synthesis

Day 13	Preparation of isoquinoline Bischler Napieralski synthesis
Day 14	Mechanism of electrophilic and nucleophilic reaction
Day 15	Test of Unit-2
Day 16	Nomenclature of organosulphur compounds,structural features
Day 17	Methods of formation and chemical reactions of thiols,thioethers
Day 18	Sulphonic acids,sulphonamides and sulphaguanidine
Day 19	Synthetic detergents alkyl and aryl sulphonates
Day 20	Test of unit-3
Day 21	Introduction to Enolates ,acidity of alpha hydrogens
Day 22	Alkylation of diethyl malonate and different synthesis of compounds
Day 23	Synthesis of ethyl acetoacetate- Claisen Condensation
Day 24	Alkylation of ethyl acetoacetate and organic synthesis
Day 25	Keto-enol tautomerism of ethyl acetoacetate
Day 26	Test of Unit-4
Day 27	Addition and condensation polymerisation
Day 28	Free radical,ionic vinyl polymerisation
Day 29	Ziegler -Natta polymerisation,Vinyl polymers
Day 30	Polyesters,polyamides,phenolformaldehyde resins
Day 31	Urea formaldehyde resins,epoxy resins and polyurethanes
Day 32	Natural and synthetic rubbers
Day 33	Assignment
Day 34	Classification of amino acids,Acid base behavior,isoelectric point
Day 35	Electrophoresis, Preparation of amino acids
Day 36	Structures and nomenclature of peptides and proteins,classification of proteins
Day 37	Peptide structure determination ,end group analysis,selective hydrolysisof peptides
Day 38	Classical peptide synthesis,solid phase peptide synthesis
Day 39	Primary and secondary structure
Day 40	Test of unit-5,6
Day 41	Revision
Day 42	Revision
Day 43	Doubt class
Day 44	Doubt class
Day 45	Revision
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Name of the professor: Ms Priyanka Bhatia **Class And Section: B.Sc Medical** **Second year** **Subject: Inorganic Chemistry** **Paper code : CH401**	
Day 1	Introduction of F Block elements
Day 2	Electronic structure of Lanthanide
Day 3	Oxidation states and Magnetic properties
Day 4	Complex formation and colour of compounds
Day 5	Ionic radii and lanthanide contraction
Day 6	Occurence n separation of lanthanides
Day 7	Lanthanide Compounds
Day 8	Test of Unit-1
Day 9	Introduction to actinides
Day 10	General characteristics of actinides
Day 11	Chemistry of separation of Np,Pu and Am from Uranium
Day 12	Transuranic elements
Day 13	Comparison of properties of lanthanides and actinides with transition elements.
Day 14	Test of Unit-2
Day 15	Assignment
Day 16	Theory of Qualitative and Quantitative Analysis
Day 17	Introduction to Basic Radical and Acidic Radical
Day 18	Discussion about Group 1,2 Preliminary test
Day 19	Common ion effect
Day 20	Solubility product
Day 21	Group radical and group reagents
Day 22	Oral test
Day 23	Chemistry of identification of acid radicals in combination
Day 24	Chemistry of interference of acid radicals
Day 25	Discussion of group 1Basic radical
Day 26	Group2A
Day 27	Group 2B
Day 28	Group 3
Day 29	Group 4
Day 30	Group 4
Day 31	Group 5
Day 32	Group 6
Day 33	Oral test of all groups

Day 34	Interfering acid radical
Day 35	Group1Confirmatory test
Day 36	Group 2 Confirmatory test
Day 37	Group 3 Confirmatory test
Day 38	Theory of precipitation,post precipitation
Day 39	Purification of precipitates
Day 40	Test of Unit 3
Day 41	Revision
Day 42	Doubt class
Day 43	Revision
Day 44	Revision
Day 45	Revision
Day 46	
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Name of the professor: Indu Rani

Class And Section : B.Sc. Med. 2nd Sem.

Subject: Diversity of Archegoniates
Paper code:2.1

Day 1	Introduction to syllabus
Day 2	General characters of bryophytes
Day 3	Classification
Day 4	Alternation of generation
Day 5	Evolution of sporophytes
Day 6	Economic importance
Day 7	Test
Day 8	*Marchantia* external and internal structure
Day 9	Vegetative reproduction
Day 10	Sexual reproduction

Day 11	Antheridia
Day 12	Archegonia
Day 13	Sporophyte
Day 14	Alternation of generation
Day 15	*Anthoceros* external and internal structure
Day 16	Reproduction
Day 17	Antheridia
Day 18	Archegonia
Day 19	Sporophyte
Day 20	Young gametophyte
Day 21	Sporophyte
Day 22	Test
Day 23	*Funaria* external and internal structure
Day 24	Antheridia and archegonia
Day 25	Sporophyte
Day 26	Young gametophyte
Day 27	General characters of pteridphytes
Day 28	Classification and alternation of generation
Day 29	Heterospory, apospory and apogamy
Day 30	Stellar system
Day 31	*Rhynia*
Day 32	*Selaginella* structure
Day 33	Reproduction
Day 34	Reproduction Hetrospory
Day 35	Test
Day 36	*Equisetum* structure
Day 37	*Equisetum* Reproduction
Day 38	Reproduction
Day 39	Economic importance
Day 40	*Pteris* structure
Day 41	Reproduction
Day 42	Reproduction
Day 43	Test
Day 44	Revision
Day 45	Revision
Day 46	
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Name of the professor: Indu Rani

Class And Section: B.Sc. Med. 2nd sem. Botany

Subject: Genetics
Paper code: 2.2

Day 1	Introduction to syllabus
Day 2	DNA the genetic material , structure of DNA
Day 3	Replication of DNA
Day 4	Replication of DNA
Day 5	DNA and protein interaction
Day 6	Genetic code, satellite DNA
Day 7	Test
Day 8	Introduction to Mendel and Monohybrid cross
Day 9	Dihybrid cross
Day 10	Law of segregation
Day 11	Law of independent assortment
Day 12	Linkage
Day 13	Types of linkage
Day 14	Sex linked inheritance
Day 15	Incomplete and codominance
Day 16	Complementary gene interactions
Day 17	Epistasis
Day 18	Supplementary genes and polygenic inheritance
Day 19	Extra nuclear inheritance
Day 20	Plastid inheritance in four ‘o clock plant
Day 21	Cytoplasm male sterility
Day 22	Plasmids
Day 23	Test
Day 24	Mutation
Day 25	Types of mutation
Day 26	Mutation and their effects
Day 27	Transposon
Day 28	DNA damage and repair
Day 29	DNA damage and repair
Day 30	Concept of gene
Day 31	RNA and its types
Day 32	RNA and its type
Day 33	Test
Day 34	Ribosome
Day 35	Transcription
Day 36	Translation
Day 37	Translation
Day 38	Structure of protein
Day 39	Regulation of gene expression

Day 40	Regulation of gene expression
Day 41	Test
Day 42	Revision
Day 43	Revision
Day 44	Revision
Day 45	Revision
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Name of the professor:Dr. Nupur Srivastava

Class And Section: B.Sc 2nd semester

Subject: Number Theory and Trignometry BM-121

Day 1	Introduction of subject
Day 2	Divisibility
Day 3	Problems on topic
Day 4	GCD
Day 5	Problems
Day 6	LCM
Day 7	Revision
Day 8	Revision
Day 9	Doubt class
Day 10	Test
Day 11	Primes
Day 12	Fundamental theorem of Arithmetic
Day 13	Linear cingruence
Day 14	Fermat theorem
Day 15	Problems
Day 16	Problems
Day 17	Revision
Day 18	Revision
Day 19	Doubt class
Day 20	Test
Day 21	Willsion theorem
Day 22	De moiver theorem
Day 23	Application of theorem
Day 24	Roots of complex numbers
Day 25	Problems
Day 26	Problems
Day 27	Revision
Day 28	Revision

Day 29	Doubt class
Day 30	Test
Day 31	Solution of equation
Day 32	Expansion of Trignometry function
Day 33	Circular function of complex variable
Day 34	Euler theorem
Day 35	Revision
Day 36	Revision
Day 37	Doubt class
Day 38	Doubt class
Day 39	Test
Day 40	Problems
Day 41	Hyperbolic function
Day 42	Problems
Day 43	Seperation of real and imaginary parts of circular function
Day 44	Problems
Day 45	Hyperbolic function
Day 46	Problems
Day 47	Logarithmic of complex quantity
Day 48	Problems
Day 49	General exponential function
Day 50	Problems
Day 51	Inverse circular function of real variable
Day 52	Problems
Day 53	Doubt class
Day 54	Revision
Day 55	Revision
Day 56	Test
Day 57	Inverse hyperbolic function
Day 58	Problems
Day 59	Georgy series
Day 60	Problems
Day 61	Summation of series
Day 62	Problems
Day 63	Doubt class
Day 64	Doubt class
Day 65	Revision
Day 66	Revision
Day 67	Test
Day 68	C+iS method
Day 69	Series on binomial
Day 70	Series depending upon exponential sine and cosine series
Day 71	Series on logarithmic series
Day 72	Summation of series depending upon tanx
Day 73	Hyperbolic series
Day 74	Euler function

Day 75	Revision
Day 76	Revision
Day 77	Doubt class
Day 78	Test
Day 79	Theorem
Day 80	Problems
Day 81	Greatest integer function
Day 82	Problems
Day 83	Sigma function
Day 84	Problems
Day 85	Mobius function
Day 86	Problems Gauss lemma and theorem
Day 87	Doubt class
Day 88	Doubt class
Day 89	Doubt class
Day 90	Test

Name of the professor: Dr.Nupur Srivastava **Class And Section: M.Sc Mathematics 4th Semester** **Subject: Graph Theory 17MM24SC2**	
Day 1	Introduction of subject and syllabus
Day 2	Definition of types of graphs
Day 3	Test
Day 4	Revision
Day 5	Presentation
Day 6	Walk
Day 7	Paths and circuit
Day 8	Problems

Day 9	Connected graph
Day 10	Disconnected graph
Day 11	Problems
Day 12	Revision
Day 13	Test
Day 14	Application of graph
Day 15	Operation on graph
Day 16	Test
Day 17	Presentation
Day 18	Revision
Day 19	Doubt class
Day 20	Graph representation
Day 21	Isomorphism of graph
Day 22	Revision
Day 23	Elulerian path
Day 24	Hamilton path
Day 25	Revision
Day 26	Test
Day 27	Shortest path in weighted graph
Day 28	Travelling sales man problem
Day 29	Planner graph
Day 30	Problems on topic
Day 31	Revision
Day 32	Presentation
Day 33	Detection of planarity

Day 34	Krakowski theoem
Day 35	Garph colouring
Day 36	Revision
Day 37	Revision
Day 38	Doubt class
Day 39	Doubt class
Day 40	Test
Day 41	Problems
Day 42	Directed graph
Day 43	Tree
Day 44	Tree termology
Day 45	Doubt class
Day 46	Doubt class
Day 47	Revision
Day 48	Test
Day 49	Rooted labelled tree
Day 50	Test
Day 51	Prefix code
Day 52	Revision
Day 53	Revision
Day 54	Presentation
Day 55	Binary search tree
Day 56	Tree traversal
Day 57	Doubt class
Day 58	Doubt class

Day 59	Test
Day 60	Spanning tree
Day 61	Cut set
Day 62	Minimum spanning tree
Day 63	Revision
Day 64	Revision
Day 65	Doubt class
Day 66	Doubt class
Day 67	Test
Day 68	Problems
Day 69	Kruskal Algorithm
Day 70	Prime Algorithm
Day 71	Revision
Day 72	Revision
Day 73	Doubt class
Day 74	Test
Day 75	Sorting methods
Day 76	Problems
Day 77	Revision
Day 78	Revision
Day 79	Test
Day 80	Test
Day 81	Doubt class
Day 82	Presentation
Day 83	Revision

Day 84	Revision
Day 85	Revision
Day 86	Test
Day 87	Test
Day 88	Paper disscusion
Day 89	Test
Day 90	Test

Name of the professor:Dr. Nupur Srivastava

Class And Section:M.Sc 2nd semester

Subject: Measure and Integration Theory 16Mm22H2

Day 1	Introduction of subject
Day 2	Set function
Day 3	Elementary operation on meadure
Day 4	Measurable sets
Day 5	Revision
Day 6	Revision
Day 7	Doubt class
Day 8	Test
Day 9	Fundamental properties of measurable sets
Day 10	Lebesgue measure
Day 11	Alzebra of measurable sets
Day 12	Botel sets
Day 13	Equivalent formulation of measurable sets
Day 14	Revision
Day 15	Revision
Day 16	Doubt class
Day 17	Test
Day 18	Closed sets
Day 19	Non measurable sets
Day 20	Measurable function

Day 21	Equivalent formulation
Day 22	Doubt class
Day 23	Revision
Day 24	Test
Day 25	Properties of measurable functions
Day 26	Approximation of measurable functions
Day 27	Convergence in measure
Day 28	Short comings of Riemann integral
Day 29	Revision
Day 30	Revision
Day 31	Doubt class
Day 32	Test
Day 33	Lebesgue theorem
Day 34	Monotonic convergence theorem
Day 35	Revision
Day 36	Revision
Day 37	Assignment discussion
Day 38	Presentation
Day 39	Test
Day 40	Vitali convergence lemma
Day 41	Differentiation of monotonic function
Day 42	Function of bounded variation
Day 43	Revision
Day 44	Revision
Day 45	Test
Day 46	Doubt class
Day 47	Difference of indefinite integral
Day 48	Problems
Day 49	Problems
Day 50	Presentation
Day 51	Doubts
Day 52	Test
Day 53	Absolutely continuous function
Day 54	Properties of functions
Day 55	Theorem
Day 56	Theorem
Day 57	Problems
Day 58	Problems
Day 59	Doubt class
Day 60	Revision
Day 61	Test
Day 62	Revision
Day 63	Test
Day 64	Group disscusion
Day 65	Group disscusion
Day 66	Test

Day 67	Revision
Day 68	Revision
Day 69	Revision
Day 70	Theorem
Day 71	Theorem
Day 72	Problems
Day 73	Problems
Day 74	Presentation
Day 75	Doubt class
Day 76	Test
Day 77	Test
Day 78	Properties of functions
Day 79	Naming theorem
Day 80	Lemma
Day 81	Doubt class
Day 82	Revision
Day 83	Revision
Day 84	Test
Day 85	Doubt class
Day 86	Doubt class
Day 87	Question paper discussion
Day 88	Question paper discussion
Day 89	Question paper discussion
Day 90	Doubt class

Name of the professor:Dr. Nupur Srivastava

Class And Section:M.Sc Mathematics 4th semester

Subject: Viscous fluid Dynamics 17MM24H3

Day 1	Introduction of subject
Day 2	Vortices in two dimensional
Day 3	Vortex doublet
Day 4	Doubt class
Day 5	Doubt class
Day 6	Test
Day 7	Images, motion due to vortices
Day 8	Single and double rows vortices
Day 9	Doubt class

Day 10	Doubt class
Day 11	Test
Day 12	Revision
Day 13	Karman vortex Street
Day 14	Wave equation in a gas
Day 15	Subsonic sonic and supersonic flow
Day 16	Revision
Day 17	Revision
Day 18	Presentation
Day 19	Test
Day 20	Equation of motion of gas
Day 21	Doubt clasd
Day 22	Flow through nozel
Day 23	Stress components relation between Cartesian components of stress
Day 24	Revision
Day 25	Revision
Day 26	Test
Day 27	Test
Day 28	Doubt class
Day 29	Translation motion of fluid elements rate of strain
Day 30	Transformation of rates of strain
Day 31	Relation between stress and rates of strain
Day 32	Doubt class
Day 33	Doubt class
Day 34	Test
Day 35	Coefficient of viscosity and laminar flow
Day 36	Newtonian and non-Newtonian fluids
Day 37	Test
Day 38	Test
Day 39	Revision
Day 40	Revision
Day 41	Doubt class
Day 42	Navies stoke equation of motion
Day 43	Equation of motion in cylindrical and polar co ordinate
Day 44	Revision
Day 45	Revision
Day 46	Doubt class
Day 47	Doubt class
Day 48	Test
Day 49	Equation of energy
Day 50	Diffusion of vortices
Day 51	Energy dissipation due to viscosity
Day 52	Equation of state
Day 53	Revision
Day 54	Revision
Day 55	Test

Day 56	Palne Priscilla and country flow between two parallel planes
Day 57	Theory of lubricant
Day 58	Revision
Day 59	Revision
Day 60	Test
Day 61	Steady flow between coaxial circulatar cylinders
Day 62	Flow through tubes of uniform elleptic and equilateral triangulular cross section
Day 63	Unsteady flow
Day 64	Steady flow over a plate
Day 65	Revision
Day 66	Revision
Day 67	Doubt class
Day 68	Test
Day 69	Steady flow through sphere
Day 70	Flow in convergent and divergent channels
Day 71	Dynamical similarity
Day 72	Doubt class
Day 73	Doubt class
Day 74	Revision
Day 75	Revision
Day 76	Test
Day 77	Presentation
Day 78	Group disscusion
Day 79	Non dimensional number
Day 80	Dimensional analysis
Day 81	Buckingham pie theorem
Day 82	Physical importance of non-dimensional parameters
Day 83	Prandtl boundary layer,Karman integral equations
Day 84	Karman pohlhausen method
Day 85	Doubt class
Day 86	Test
Day 87	Test
Day 88	Presentation
Day 89	Test
Day 90	Doubt class

Name of the professor: Dr Reeti Panchal

Class And Section: B.Sc. Medical IVth
Semester Section A & B

Subject: Life and Diversity of Chordates II (Zoology)
Paper code : 4.1

Day 1	Habitat, Habits, external morphology, skin and digestive system of *Rana tigrina* (Frog)
Day 2	Coelom ,viscera and circulatory system of Frog
Day 3	Nervous system, eye and ear of Frog
Day 4	Urinogenital system of Frog
Day 5	Origin and evolutionary tree of Amphibia
Day 6	Respiratory system of Frog
Day 7	Parental care in amphibians
Day 8	Class test 1
Day 9	Habitat, Habits, external morphology, skin and digestive system of *Hemidactylus* (Common house lizard)
Day 10	Blood vascular system (Heart, arterial system, venous system, working of heart) of *Hemidactylus*
Day 11	Respiratory system of *Hemidactylus*
Day 12	Excretory system, male and female reproductive system of *Hemidactylus*
Day 13	Nervous system and sense organs of *Hemidactylus*
Day 14	Origin and evolutionary tree of reptiles
Day 15	Extinct reptiles, poison apparatus of snakes and poisonous and non-poisonous snakes
Day 16	Assignment 1
Day 17	Habitat, Habits, external morphology, skin and muscular system of *Columba livia* (Pigeon)
Day 18	Digestive system and respiratory system of Pigeon
Day 19	Nervous system (Brain, spinal cord) of *Columba livia* (Pigeon)
Day 20	Blood vascular system (Heart, arterial system, venous system, working of heart) of *Columba livia* (Pigeon)
Day 21	Eye, tactile organs, olfactory organs and gustatory organs of *Columba livia* (Pigeon)
Day 22	Urinogenital system, copulation, egg laying and development of Pigeon
Day 23	Ear of Pigeon
Day 24	Origin of migration and advantages of migration in aves
Day 25	Flight adaptations in birds
Day 26	Migration of birds
Day 27	Structure and types of Feather
Day 28	Development of feather
Day 29	Perching mechanism in birds
Day 30	Characters, classification and examples of class Mammalia
Day 31	Habitat, Habits, external morphology, skin, muscular layer of Rat

Day 32	Blood vascular system (Heart, arterial system, venous system, blood, lymphatic system and working of heart) of Rat
Day 33	Digestive system of Rat
Day 34	Nervous system (Brain and spinal cord) of Rat
Day 35	Nervous system (cranial nerves, spinal nerves and autonomic nervous system) of Rat
Day 36	Respiratory system of Rat
Day 37	Endocrine system of Rat
Day 38	Sense organs (Organs of touch, smell taste, sight and ear) of Rat
Day 39	Peritoneum and thoracic cavity of *Rattus rattus* (House Rat)
Day 40	Class test 2
Day 41	Excretory system of Rat
Day 42	Assignment 2
Day 43	Reproductive system of Rat
Day 44	Dentition in mammals
Day 45	Adaptive radiation of mammals

Name of the professor: Dr Reeti Panchal

ClassAndSection: B. Sc. Med 4th Sem
Section A &B

Subject: Mammalian Physiology II (Zoology) Paper code :4.2

Day 1	Origin, conduction and regulation of heart beat
Day 2	Cardiac cycle
Day 3	Electrocardiogram
Day 4	Cardiac output
Day 5	Fluid pressure and flow pressure in closed and open circulatory system
Day 6	Composition and function of blood & lymph
Day 7	Mechanism of coagulation of blood
Day 8	Coagulation factors
Day 9	Anticoagulants
Day 10	Haemopoiesis
Day 11	Control of blood pressure
Day 12	Test 1
Day 13	Assignment 1
Day 14	Exchange of respiratory gases
Day 15	Transport of gases
Day 16	Lung air volumes
Day 17	Oxygen dissociation curve of hemoglobin
Day 18	Bohr's effect, Hamburger's phenomenon (chloride shift)

Day 19	Control and regulation of respiration
Day 20	Factors affecting Oxygen dissociation curve
Day 21	Structure of nephron
Day 22	Patterns of excretory products, Ammonotelic, ureotelic, uricotelic
Day 23	Ornithine cycle for urea formation in liver
Day 24	Urine formation
Day 25	Counter-current mechanism of urine concentration
Day 26	Osmoregulation and micturition
Day 27	Neuron structure
Day 28	Nature, origin and propagation of nerve impulse along with medullated fibres
Day 29	Nature, origin and propagation of nerve impulse along with non-medullated fibre
Day 30	Conduction of nerve impulse across synapse
Day 31	Mechanism of hormone action
Day 32	Physiology of hypothalamus
Day 33	Physiology of pituitary gland, gonads
Day 34	Physiology of thyroid and parathyroid gland
Day 35	Physiology of Pancreas, Adrenal gland
Day 36	Spermatogenesis

Day 37	Test 2
Day 38	Assignment 2
Day 39	Ovulation and formation of corpus luteum
Day 40	Oogenesis
Day 41	Menstrual cycle in humans and fertilization
Day 42	Structure of gamete
Day 43	Capacitation of spermatozoa
Day 44	Implantation and gestation
Day 45	Oestrous-anoestrous cycle

Name of the professor: Sonia

Class And Section: B.Sc.(N.m)&B.A
II ND YR.

Subject: Sequence & Series

Day 1	Introduction of boundedness of the set of real numbers
Day 2	Least upper bound & greatest lower bound of a set and some theorems related to lub & glb.
Day 3	Discuss Examples related to lub & glb
Day 4	neighborhood of a point, interior point of a set
Day 5	Open sets and it's theorems
Day 6	Closed set and it's theorems
Day 7	Introduction of Limit point of a set, derived set, closure of a set
Day 8	Bolzano weierstrass theorem, & some theorems on limit points
Day 9	Theorems on closure of a set
Day 10	Discussion of exercise questions
Day 11	Introduction of compact set, cover & open cover
Day 12	Heine Borel theorem & it's converse
Day 13	Doubt discussion
Day 14	Test
Day 15	Introduction of sequence, bdd. Sequence & it's convergence
Day 16	Theorems on convergent sequence & divergent sequence
Day 17	Null sequence & it's theorems
Day 18	Examples and exercise questions
Day 19	Theorems on limit of sequence

Day 20	Squeeze principle, cauchy's first theorem & second theorem
Day 21	Examples and exercise questions
Day 22	Monotonic sequence & it's theorems on convg. & divg.
Day 23	Nested sequence & it's theorems
Day 24	Examples and exercise questions
Day 25	Limit point or cluster point & it's theorems
Day 26	Bolzano weierstrass theorem, cauchy's sequence
Day 27	Cauchy's general principle of convergence & it's questions
Day 28	Introduction of subsequence & it's theorems
Day 29	Doubts discussion
Day 30	Test
Day 31	Introduction of infinite series & it's convergence & divergence
Day 32	Theorems on convergence of infinite series
Day 33	Cauchy's general principle of convergence & theorems
Day 34	Comparison tests
Day 35	Comparison tests continue
Day 36	Hyper harmonic series & it's questions
Day 37	Doubt class
Day 38	Test
Day 39	D'Alembert's Ratio test & it's questions
Day 40	Cauchy's Root test & it's questions
Day 41	Raabe's test & it's questions
Day 42	Logarithmic test & it's questions
Day 43	De Morgan's and Bertrand's test & it's questions

Day 44	Doubts discussion
Day 45	Gauss test & it's questions
Day 46	Cauchy's integral test & it's questions
Day 47	Doubts discussion
Day 48	Cauchy's condensation test & it's questions
Day 49	Doubts discussion
Day 50	Test
Day 51	Introduction of alternative series
Day 52	Leibnitz's test & it's questions
Day 53	Absolute convergence & conditional convergence & theorems
Day 54	Examples and exercise questions
Day 55	Doubts discussion
Day 56	Test
Day 57	Introduction of arbitrary series
Day 58	Abel's lemma, Abel's test
Day 59	Dirichlet's test & it's questions
Day 60	Insertion and removal of parenthesis
Day 61	Riemann's rearrangement theorem
Day 62	Multiplication of series, product theorem
Day 63	Cauchy's theorem, Mertin's theorem, Cesaro's theorem, Abel's theorem
Day 64	Examples & exercise questions
Day 65	Doubts discussion
Day 66	Test
Day 67	Introduction of infinite products & it's convergence

Day 68	Examples & exercise questions
Day 69	Theorems of an infinite products
Day 70	Absolute convergence of an infinite products
Day 71	Examples & exercise questions
Day 72	Doubts discussion
Day 73	Test
Day 74	Revision of ch-1
Day 75	"
Day 76	"
Day 77	Doubts discussion
Day 78	Test
Day 79	Revision of unit-2
Day 80	"
Day 81	"
Day 82	Doubts discussion
Day 83	Test
Day 84	Revision of unit-3
Day 85	"
Day 86	Doubts discussion
Day 87	Test
Day 88	Revision of unit-4
Day 89	Doubts discussion
Day 90	Doubts discussion

Name of the professor: Dr. Sonam Ahuja **Class & Section: B.Sc(N.M) & BA** **2ndsem. Subject: O.D.E**	
Day 1	Introduction of exact diff. Equation
Day 2	Necessary & sufficient conditions for exact equation
Day 3	Integrating factor
Day 4	Rules for finding the integrating factors
Day 5	Rule-2
Day 6	Rule-3
Day 7	Rule-4
Day 8	Rule-5
Day 9	Doubts discussion
Day 10	"
Day 11	Test
Day 12	Equations solvable for p
Day 13	Equation solvable for y
Day 14	Equation solvable for x
Day 15	Lagrange's equation
Day 16	Clairaut's equation
Day 17	Equation reducible to clairaut's form
Day 18	Singular Solution
Day 19	Examples and exercise questions
Day 20	Doubts discussion
Day 21	"

Day 22	Test
Day 23	Introduction of trajectories and orthogonal trajectories
Day 24	Examples and exercise questions
Day 25	Introduction of linear differential equations and auxiliary equation
Day 26	Complete solution and particular solution
Day 27	Examples and exercise questions
Day 28	Case-1 examples and exercise questions
Day 29	Case-2 examples and exercise questions
Day 30	Case-3 examples and exercise questions
Day 31	Doubt discussion
Day 32	Doubt discussion
Day 33	Case-4 examples and exercise questions
Day 34	Case-5 examples and exercise questions
Day 35	Doubt discussion
Day 36	Doubt discussion
Day 37	Test
Day 38	Introduction of homogenous linear equation
Day 39	Method of solution of homogenous linear differential equations
Day 40	Examples and exercise questions
Day 41	Equations reducible to homogenous linear form
Day 42	Examples and exercise questions
Day 43	Doubt discussion
Day 44	Doubt discussion
Day 45	Test

Day 46	Introduction of linear differential equations of second order
Day 47	Method-1(By changing the dependent variable when an integral include ed in C. F is known.)
Day 48	Examples and exercise questions
Day 49	Method-2(By changing the first derivative & changing the dependent variable.)
Day 50	Examples and exercise questions
Day 51	Method-3(By changing the independent variable.)
Day 52	Examples and exercise questions
Day 53	Method-4(variation of parameters.)
Day 54	Examples and exercise questions
Day 55	Method-5(undetermined coefficient.)
Day 56	Examples and exercise questions
Day 57	Doubt discussion
Day 58	Doubt discussion
Day 59	Test
Day 60	Introduction of simultaneous differential equations
Day 61	Methods of solving simultaneous linear differential equations wth constant co-efficients
Day 62	l-By using of operator D
Day 63	ll-Method of differentiation
Day 64	Examples and exercise questions
Day 65	Ex-7.2(examples and exercise questions)
Day 66	Continue
Day 67	Ex-7. 3(examples and exercise questions)

Day 68	Continue
Day 69	Doubt discussion
Day 70	Doubt discussion
Day 71	Test
Day 72	Introduction of total differential equations
Day 73	Necessary & sufficient condition for the integrability of total differential equations
Day 74	Methods of solving total differential equations
Day 75	Regarding one variable as constant out of three variable
Day 76	Examples and exercise questions
Day 77	Methods for solving homogenous equations
Day 78	Examples and exercise questions
Day 79	Method of auxiliary equation
Day 80	Examples and exercise questions
Day 81	Revision of unit-1
Day 82	"
Day 83	"
Day 84	Test
Day 85	Revision of unit-2
Day 86	"
Day 87	revision of unit-3 &4
Day 88	"
Day 89	"
Day 90	"

Name of the professor: Sonia

Class And Section: B.Sc(N.M) 6th Sem.

Subject: Real & Complex Analysis

Day 1	Introduction of Jacobian
Day 2	Chain rule for Jacobian
Day 3	Examples & Exercise Questions
Day 4	Functional Dependence
Day 5	Examples & exercise questions
Day 6	Introduction of Beta function & Properties
Day 7	Theorems on Beta function
Day 8	Examples and exercise questions
Day 9	Introduction of Gamma function
Day 10	Relation between beta & gamma function
Day 11	Duplication formula
Day 12	Examples & exercise questions
Day 13	Doubts discussion
Day 14	Doubts discussion
Day 15	Test
Day 16	Introduction of double integral and questions
Day 17	Substitution method for double integrals
Day 18	Examples and exercise questions
Day 19	Introduction of triple integral
Day 20	Substitution method for triple integral

Day 21	Examples and exercise questions
Day 22	Application of double & triple integrals for finding area and volume
Day 23	Dirichlet's integrals
Day 24	Liouvill's extension of dirichlet's integrals
Day 25	Examples and exercise questions
Day 26	Doubt class
Day 27	Change of order of integration
Day 28	Doubt class
Day 29	Test
Day 30	Introduction of Fourier series
Day 31	Determination of Fourier coefficient
Day 32	Fourier series for even & odd function
Day 33	Dirichlet's conditions
Day 34	Fourier expansion of piecewise monotonic continuous functions
Day 35	Examples and exercise questions
Day 36	Fourier expansion of function having points of discontinuity
Day 37	Doubt discussion
Day 38	Change of interval
Day 39	Examples
Day 40	Half range series & examples
Day 41	Parseval's identity
Day 42	Examples
Day 43	Doubt discussion
Day 44	Test

Day 45	Introduction of complex functions
Day 46	Stereographic projection of complex numbers
Day 47	Limit & continuity of a complex function
Day 48	Uniform continuity & differentiability of a complex function
Day 49	Introduction of analytic function
Day 50	C-R equation(proof & questions)
Day 51	Sufficient conditions for f(z) to be analytic
Day 52	C-R equation in polar form
Day 53	Orthogonal system, Harmonic Functions
Day 54	Construction of an analytic function
Day 55	Examples and exercise questions
Day 56	Application of analytic functions to field & flow problems
Day 57	Doubt discussion
Day 58	Doubt discussion
Day 59	Test
Day 60	Introduction of elementary functions & mobius transformation
Day 61	Properties
Day 62	Mapping by elementary functions
Day 63	Continue
Day 64	Continue
Day 65	Examples and exercise questions
Day 66	Doubt discussion
Day 67	Conformal Mapping
Day 68	Necessary & sufficient conditions for the transformation

Day 69	Linaer transformation
Day 70	Mobius transformation
Day 71	Theorems on mobius transformation
Day 72	Theorems
Day 73	Cross ratio
Day 74	Inverse points
Day 75	Theorems
Day 76	Doubts discussion
Day 77	Examples
Day 78	Test
Day 79	Introduction of critical Mapping
Day 80	Examples and exercise questions
Day 81	Doubts discussion
Day 82	Test
Day 83	Revision of unit-1
Day 84	Doubts discussion
Day 85	Revision of unit-2
Day 86	Doubts discussion
Day 87	Revision of unit-3
Day 88	Doubts discussion
Day 89	Revision of unit-4
Day 90	Doubts discussion

Name of the professor: Sonia **Class And Section: M.Sc(Math)** **previous Subject: I.E & C. O. V**	
Day 1	Introduction of integral equations & it's types
Day 2	Generalized Leibnitz's formula
Day 3	Initial value problems reduced to voltera integral equation .
Day 4	Voltera integral equation reduced to initial value problem.
Day 5	Method of successive approximation to solve voltera equation of 2nd kind.
Day 6	Numerical
Day 7	Method of successive substitution to solve voltera integral equation of 2nd kind
Day 8	Solution of voltera equation by Neumann series & resolvent kernel method.
Day 9	Numerical
Day 10	Laplace transform method for difference kernel.
Day 11	Solution of voltera integral equation of 2nd kind with difference kernel.
Day 12	Numericals
Day 13	Solution of voltera integral equation of first kind.
Day 14	Numericals
Day 15	Doubts discussion
Day 16	Doubts discussion
Day 17	Test
Day 18	Introduction of fredholm integral equation & it's kinds.
Day 19	Boundary value problems reduced to fredholm integral equation.
Day 20	Examples

Day 21	"
Day 22	Method of successive approximation to solve fredholm integral equation of second kind.
Day 23	Examples
Day 24	Solution of fredholm integral equation by Neumann series and resolvent kernel method.
Day 25	Examples
Day 26	Fredholm resolvent kernel as a ratio of two series.
Day 27	Examples
Day 28	Alternative procedure for calculating Bn(x, t) & Cn.
Day 29	Examples
Day 30	Degenerate kernel
Day 31	Solution of fredholm integral equation with degenerate kernel, non. Homogenous fredholm equation with degenerate kernel.
Day 32	Examples
Day 33	Doubts discussion
Day 34	"
Day 35	Test
Day 36	Introduction of greens function.
Day 37	Non homogenous ordinary differential equations.
Day 38	Construction of greens function.
Day 39	Doubts discussion
Day 40	"
Day 41	Basic properties of the greens function.
Day 42	Examples

Day 43	Constructions of the Green's function using it's basic properties.
Day 44	Strum-Liouville problem & the orthogonal series expansion.
Day 45	Doubts discussion
Day 46	Orthogonal series representation of Green's Function.
Day 47	Numericals of non. Homogenous boundary value problem.
Day 48	Fredholm integral equation & the green's function.
Day 49	Numericals
Day 50	"
Day 51	"
Day 52	Doubts discussion
Day 53	"
Day 54	"
Day 55	Test
Day 56	Introduction of calculus of variations
Day 57	Theorems
Day 58	Theorems
Day 59	Theorems
Day 60	Euler's equation simplest variations problem.
Day 61	"
Day 62	"
Day 63	Numericals
Day 64	The brachistochrone theorem
Day 65	Numericals
Day 66	Functional dependent on n functions & their derivatives of first order.

Day 67	Numericals
Day 68	"
Day 69	Theorem of geodesic.
Day 70	Doubts discussion
Day 71	"
Day 72	Functional depending on higher order derivatives.
Day 73	Numericals
Day 74	"
Day 75	Variational problem with subsidiary conditions.
Day 76	Case of several variable.
Day 77	Theorem
Day 78	Invariance of euler's equation.
Day 79	Numericals
Day 80	Doubts discussion
Day 81	"
Day 82	Test
Day 83	Revision of unit-1
Day 84	"
Day 85	Revision of unit-2
Day 86	"
Day 87	Revision of unit-3
Day 88	"
Day 89	Revision of unit-4
Day 90	"

Name of the Assistant Professor: Dr. Priti

Class And Section: B.Sc. 1st (Biotech.) 2nd sem.

Subject: Animal Diversity & Economic Zoology (BT-204)

Mode of Teaching: Offline

Lectures Per Week: 4

Day 1	-
Day 2	Outline of classification of Non- Chordates upto subclasses.
Day 3	Coelomata, Acoelomata,
Day 4	-
Day 5	Symmetries
Day 6	Protostomes
Day 7	-
Day 8	Protozoa: Locomotion, Reproduction
Day 9	Evolution of Sex
Day 10	-
Day 11	General features and life history of Paramoecium
Day 12	General features and life history of Paramoecium
Day 13	-
Day 14	General features and life history of Plasmodium.
Day 15	General features and life history of Plasmodium.
Day 16	-
Day 17	Pathogenic protozoans
Day 18	Porifera: General characters, outline of Classification ; skeleton , Canal System
Day 19	-
Day 20	Test
Day 21	Assignment
Day 22	-
Day 23	Coelenterata: General Characters, Outline of classifications Polymorphism,
Day 24	Coelenterata: General Characters, Outline of classifications Polymorphism,
Day 25	-
Day 26	Various types of stinging cells; Metagenesis,
Day 27	Coral reefs and their formation.
Day 28	-
Day 29	Coral reefs and their formation.
Day 30	Platyhelminthes- General Characters; Outline of classification
Day 31	-
Day 32	Pathogenic flatworms
Day 33	Platyhelminthes- Parasitic adaptations.
Day 34	-
Day 35	Important Larval forms
Day 36	Important Larval forms

Day 37	-
Day 38	Aschelminthes: General features, Outline of classification,
Day 39	Aschelminthes: General features, Outline of classification,
Day 40	-
Day 41	Aschelminthes: Pathogenic roundworms and their vectors in relation to man
Day 42	Aschelminthes: Pathogenic roundworms and their vectors in relation to man
Day 43	-
Day 44	Aschelminthes: Parasite adaptation.
Day 45	Test
Day 46	-
Day 47	Annelida: - General features
Day 48	Annelida: - General features
Day 49	-
Day 50	Outline of classification
Day 51	Outline of classification
Day 52	-
Day 53	Coelom
Day 54	Metameric segmentation
Day 55	-
Day 56	General features and life history of Earthworm
Day 57	General features and life history of Earthworm
Day 58	-
Day 59	Vermicomposting
Day 60	Vermicomposting
Day 61	-
Day 62	Arthropoda: General Features
Day 63	Arthropoda: Outline of Classification
Day 64	-
Day 65	Arthropoda: Larval forms of crustacean,
Day 66	Respiration in Arthropoda
Day 67	-
Day 68	Metamorphosis in insects
Day 69	Social insects; Insect vectors of diseases
Day 70	-
Day 71	Apiculture
Day 72	Sericulture
Day 73	-
Day 74	Mollusca : general features
Day 75	Mollusca : Outline of classification
Day 76	-
Day 77	Mollusca : Shell Diversity, Torsion in gastropoda
Day 78	-
Day 79	-
Day 80	Life history of Pila.
Day 81	Echinodermata: General features, outline of classification

Day 82	-
Day 83	Echinodermata:, Life history of starfish (Asterias)
Day 84	Echinodermata: Larval forms
Day 85	-
Day 86	Hemichordata: Phylogeny
Day 87	Hemichordata: Phylogeny
Day 88	-
Day 89	Hemichordata: Affinities of Balanoglossus
Day 90	Revision

Name of the Assistant Professor: Dr. Priti **Class And Section: B.Sc. 2nd (Biotech) 4th sem.** **Subject: Molecular Biology (BT-402)** **Mode Of Teaching: Offline** **Lectures Per Week: 4**	
Day 1	DNA as genetic material, Structure of DNA, Types of DNA
Day 2	-
Day 3	-
Day 4	Replication of DNA in prokaryotes
Day 5	-
Day 6	Replication of DNA in prokaryotes
Day 7	Replication of DNA in eukaryotes
Day 8	-
Day 9	-
Day 10	Semiconservative nature of DNA replication
Day 11	-
Day 12	Bidirectional replication
Day 13	DNA polymerases
Day 14	-
Day 15	-
Day 16	The replication complex
Day 17	-
Day 18	Preprimimng proteins
Day 19	Primosome, Replisome
Day 20	-

Day 21	-
Day 22	Rolling circle replication
Day 23	-
Day 24	Unique aspects of eukaryotic chromosome replication
Day 25	Fidelity of replication
Day 26	-
Day 27	-
Day 28	Test
Day 29	-
Day 30	Assignment
Day 31	DNA damage and repair
Day 32	-
Day 33	-
Day 34	Causes and types of DNA damage
Day 35	-
Day 36	Mechanism of DNA repair: Photoreactivation, Base excision repair,
	Nucleotide excision repair
Day 37	Mismatch repair, Translesion synthesis, Recombinational repair,
Day 38	-
Day 39	-
Day 40	Non homologous end joining.
Day 41	-
Day 42	Homologous recombination: models and mechanism
Day 43	Homologous recombination: models and mechanism
Day 44	-
Day 45	-
Day 46	RNA structure and types of RNA
Day 47	-
Day 48	Transcription in prokaryotes
Day 49	Transcription in prokaryotes
Day 50	-
Day 51	-
Day 52	TH Prokaryotic RNA polymerase, Role of sigma factor, Promoter
Day 53	-
Day 54	Initiation, Elongation, Termination of RNA chains
Day 55	Transcription in eukaryotes
Day 56	-
Day 57	-
Day 58	Eukaryotic RNA polymerases, Transcription factors, Promoters, Enhancers
Day 59	-
Day 60	SMechanism of transcription initiation promoter clearance and elongation

Day 61	M RNA splicing and processing: processing of pre-mRNA: 5' cap formation
Day 62	-
Day 63	-
Day 64	Polyadenylation, Splicing, rRNA, tRNA splicing
Day 65	-
Day 66	Regulation of gene expression in prokaryotes
Day 67	Operon concept (inducible and repressible system)
Day 68	-
Day 69	-
Day 70	Genetic code and its characteristics
Day 71	-
Day 72	Prokaryotic translation
Day 73	Prokaryotic translation
Day 74	-
Day 75	-
Day 76	Eukaryotic translation
Day 77	-
Day 78	Eukaryotic translation
Day 79	Eukaryotic translation
Day 80	-
Day 81	-
Day 82	Ribosome structure and assembly, Charging of tRNA, aminoacyl tRNA synthetases, Mechanism of initiation, elongation and termination of polypeptides
Day 83	-
Day 84	Fidelity of translation
Day 85	Fidelity of translation
Day 86	-
Day 87	-
Day 88	Assignment
Day 89	-
Day 90	Test

Name of the professor: Dr. Jyoti Kapil **ClassAnd Section:B.Sc biotech 3rd yr. Semester VI** **Subject:BT603 Bioprocess Technology**	
Day 1	No class
Day 2	No class
Day 3	Syllabus discussion
Day 4	Fermentaion technology Introduction
Day 5	Industry application of fermenter
Day 6	Basic principle components of fermentation technology
Day 7	No class
Day 8	No class
Day 9	Types of microbial culture
Day 10	Growth kinetics– Batch culture
Day 11	Growth kinetics– Fed batch culture
Day 12	Growth kinetics– Continuous culture
Day 13	No class
Day 14	No class
Day 15	Components of fermentation technology
Day 16	Design of bioprocess vessels
Day 17	Significance of Impeller, Baffles, Sparger;
Day 18	Types of culture/production vessels
Day 19	No class
Day 20	No class
Day 21	Airlift; Cyclone Column fermenters

Day 22	Packed Tower, Pilot scale culture
Day 23	Fermenters -Application in production processes
Day 24	Class test
Day 25	No class
Day 26	No class
Day 27	Principles of upstream processing
Day 28	Media preparation
Day 29	Inocula development
Day 30	Inocula development
Day 31	No class
Day 32	No class
Day 33	Sterilization
Day 34	Sterilization
Day 35	Death Kinetics
Day 36	Parts of fermenter
Day 37	No class
Day 38	No class
Day 39	Oxygen requirement in bioprocess
Day 40	Mass transfer coefficient
Day 41	Mass transfer coefficient
Day 42	FactorsaffectingKLa
Day 43	No class
Day 44	No class
Day 45	Factors affecting KLa

Day 46	Bioprocess measurement
Day 47	Control system
Day 48	Control parameters
Day 49	No class
Day 50	No class
Day 51	Class Test
Day 52	Computer aided process control.
Day 53	Computer aided process control.
Day 54	Discussion fermenter types
Day 55	No class
Day 56	No class
Day 57	Downstream processing
Day 58	Downstream processing
Day 59	Separation
Day 60	Product recovery
Day 61	No class
Day 62	No class
Day 63	Product recovery
Day 64	Purification of products
Day 65	Packaging
Day 66	Effluent treatment
Day 67	No class

Day 68	No class
Day 69	Effluent treatment
Day 70	Microbial production of ethanol
Day 71	Amylase production
Day 72	Lactic acid production
Day 73	No class
Day 74	No class
Day 75	Single Cell Proteins production
Day 76	Single Cell Proteins.
Day 77	Microbial products application
Day 78	Class test
Day 79	No class
Day 80	No class
Day 81	Range of bioprocess technology
Day 82	Chronological development- bioprocess technology
Day 83	Chronological development
Day 84	Revision
Day 85	No class
Day 86	No class
Day 87	Revision
Day 88	Revision
Day 89	Revision
Day 90	Revision

Name of the professor: Dr. Jyoti Kapil **ClassAndSection: B.Sc biotech 2nd yr. Semester IV** **Subject:BT404MammalianPhysiology**	
Day 1	Syllabus discussion
Day 2	General physiology of mammals discussed
Day 3	
Day 4	
Day 5	
Day 6	Digestion
Day 7	Digestion system parts,
Day 8	Digestion Physiology, digestive system parts
Day 9	-
Day 10	-
Day 11	-
Day 12	Mechanism of digestion
Day 13	Digestive System
Day 14	Digestion of carbohydrates, Absorption of carbohydrates,
Day 15	-
Day 16	-
Day 17	-
Day 18	Mechanism of digestion of Proteins
Day 19	Absorption of Proteins
Day 20	Mechanism of digestion of Lipids, Mechanism of digestion of nucleic acids
Day 21	-
Day 22	-
Day 23	-
Day 24	Composition of bile, Saliva, Pancreatic
Day 25	Gastric, Intestinal juice
Day 26	Respiration-physiology ,Exchange of gases
Day 27	-
Day 28	-
Day 29	-
Day 30	TransportofO2andCO2
Day 31	Oxygen dissociation curve
Day 32	Chloride shift, Definitions
Day 33	-
Day 34	-
Day 35	-
Day 36	Composition o fblood,
Day 37	Plasma proteins &their role

Day 38	Haemopoisis , Blood cells
Day 39	-
Day 40	-
Day 41	-
Day 42	Mechanism of coagulation of blood
Day 43	Mechanism of working of heart
Day 44	Cardiac output, cardiac cycle
Day 45	-
Day 46	-
Day 47	-
Day 48	Class Test
Day 49	Origin &conduction of heartbeat, Heart Diseases
Day 50	Structure of cardiac, smooth & skeletal muscle
Day 51	-
Day 52	-
Day 53	-
Day 54	Threshold stimulus, All or None rule
Day 55	Single muscle twitch, muscle tone
Day 56	Physical, chemical mechanism of muscle contraction ,Electrical events of muscle contraction
Day 57	-
Day 58	-
Day 59	-
Day 60	Excretion: modes of excretion
Day 61	Ornithine cycle
Day 62	Structure of Kidney, Mechanism of urine formation
Day 63	-
Day 64	-
Day 65	-
Day 66	Counter current mechanism
Day 67	Neurons strcture
Day 68	Mechanism of generation & propagation of nerve impulse, structure of synapse
Day 69	-
Day 70	-
Day 71	-
Day 72	synaptic conduction, saltatory conduction
Day 73	Neurotransmitters Mechanism of action of hormones (insulin)
Day 74	Action of hormones (steroids)
Day 75	-
Day 76	-
Day 77	-
Day 78	Class test
Day 79	Endocrine glands
Day 80	Hypothalamus, Pituitary

Day 81	Pituitary
Day 82	-
Day 83	-
Day 84	Pineal, Thymus
Day 85	Hypo & hyper-secretions
Day 86	Thyroid, Parathyroid Hormone
Day 87	-
Day 88	-
Day 89	-
Day 90	Revision

Name of the professor: Dr.Jyoti *Kapil*

***Class AndSection: B.*Sc biotech**

Sem2nd

Day 1	Introduction - Syllabus
Day 2	
Day 3	
Day 4	Types of Data
Day 5	
Day 6	
Day 7	Collection of data; Primary & Secondary data
Day 8	
Day 9	
Day 10	Classification representation of Statistical data
Day 11	
Day 12	
Day 13	Graphical representation of Statistical data
Day 14	
Day 15	
Day 16	Measures of central tendency
Day 17	
Day 18	
Day 19	Measures of Dispersion

Day 20	
Day 21	
Day 22	Measures of Skewness
Day 23	
Day 24	
Day 25	Measures of Kurtosis
Day 26	
Day 27	
Day 28	Probability - classical & axiomatic
Day 29	
Day 30	
Day 31	Class test
Day 32	
Day 33	
Day 34	definition of probability Theorems on total Probability
Day 35	
Day 36	
Day 37	compound probability
Day 38	
Day 39	
Day 40	Sums practice of Probability
Day 41	
Day 42	
Day 43	Elementary ideas of Binomial distributions.
Day 44	
Day 45	
Day 46	Poisson distributions.
Day 47	
Day 48	
Day 49	Normal distributions.
Day 50	
Day 51	
Day 52	Testing of hypothesis and standard error
Day 53	
Day 54	
Day 55	Problem/Qs Practice
Day 56	
Day 57	
Day 58	Methods of sampling
Day 59	
Day 60	
Day 61	Large sample test and small sample test.
Day 62	
Day 63	

Day 64	t test -one tail
Day 65	
Day 66	
Day 67	T test -two tail
Day 68	
Day 69	
Day 70	Class Test
Day 71	
Day 72	
Day 73	Analysis of variance(ANOVA)
Day 74	
Day 75	
Day 76	ANOVA
Day 77	
Day 78	
Day 79	Chi square test for goodness of fit
Day 80	
Day 81	
Day 82	Problem /Qs solving
Day 83	
Day 84	
Day 85	Problem /Qs solving
Day 86	
Day 87	
Day 88	Problem /Qs solving
Day 89	
Day 90	

Name of the Assistant/Associate Professor: Dr. Priti **Class And Section: B.Sc. Biotech III year 6th sem.** **Subject: Animal Biotechnology (BT- 602)** **Mode Of Teaching: Offline** **Lectures Per Week: 6**	
Day 1	-
Day 2	-
Day 3	Introduction of Animal Biotechnology
Day 4	Introduction of Gene transfer methods in Animals
Day 5	Introduction of Gene transfer methods in Animals
Day 6	Gene transfer methods in Animals
Day 7	-
Day 8	-
Day 9	Gene transfer methods in Animals – Microinjection
Day 10	Gene transfer methods in Animals – Microinjection
Day 11	Gene transfer methods in Animals – Embryonic Stem cell gene transfer, Retrovirus & Gene transfer.
Day 12	Gene transfer methods in Animals – Embryonic Stem cell gene transfer
Day 13	-
Day 14	-
Day 15	Gene transfer methods in Animals – Retrovirus & Gene transfer.
Day 16	Gene transfer methods in Animals – Retrovirus & Gene transfer.
Day 17	Gene transfer methods in Animals – Retrovirus & Gene transfer.
Day 18	Retrovirus & Gene transfer.
Day 19	-
Day 20	-
Day 21	Test
Day 22	Introduction to transgenesis
Day 23	Introduction to transgenesis
Day 24	Assignment
Day 25	-
Day 26	-
Day 27	Transgenic Animals – Mice, Cow
Day 28	Transgenic Animals –Pig, Sheep
Day 29	Transgenic Animals – Goat
Day 30	Transgenic Animals –Bird, Insect.
Day 31	-
Day 32	-
Day 33	Introduction of Animal diseases

Day 34	Animal diseases
Day 35	Animal diseases need help of Biotechnology
Day 36	Animal diseases need help of Biotechnology –Foot-and- mouth disease
Day 37	-
Day 38	-
Day 39	Animal diseases need help of Biotechnology –Coccidiosis
Day 40	Animal diseases need help of Biotechnology –Trypanosomiasis
Day 41	Animal diseases need help of Biotechnology –Theileriosis.
Day 42	Test
Day 43	-
Day 44	-
Day 45	Introduction of Animal propagation
Day 46	Introduction of Animal propagation
Day 47	Animal propagation – Artificial insemination
Day 48	Animal propagation – Artificial insemination
Day 49	-
Day 50	-
Day 51	Animal propagation –Animal Clones
Day 52	Animal propagation - Embryo transfer techniques
Day 53	Animal propagation -Embryo transfer techniques
Day 54	Animal propagation -Embryo transfer techniques
Day 55	-
Day 56	-
Day 57	Introduction to Stem Cell Technology
Day 58	Applications of Stem Cell Technology
Day 59	Conservation Biology
Day 60	Significance of Conservation Biology
Day 61	-
Day 62	-
Day 63	Introduction of Genetic modification in Medicine
Day 64	Genetic modification in Medicine
Day 65	Gene therapy
Day 66	Types of gene therapy
Day 67	-

Day 68	-
Day 69	Types of gene therapy
Day 70	Types of gene therapy
Day 71	Vectors in gene therapy
Day 72	Viral Vectors in gene therapy
Day 73	-
Day 74	-
Day 75	Viral Vectors in gene therapy
Day 76	Non-viral Vectors in gene therapy
Day 77	Non-viral Vectors in gene therapy
Day 78	Applications of gene therapy
Day 79	-
Day 80	-
Day 81	Molecular engineering
Day 82	Molecular engineering
Day 83	Human genetic engineering
Day 84	Human genetic engineering
Day 85	-
Day 86	-
Day 87	Problems & ethics.
Day 88	Problems & ethics.
Day 89	Revision
Day 90	Revision

Name of the Professor: Ms Deepti Ahuja **Class And Section: B.Sc. 4th sem (Med/Non-Med)** **Subject: Organic Chemistry** **Paper code : CH402**	
Day 1	Structure and nomenclature of amines, physical properties. Separation of a mixture of primary, secondary, and tertiary amines.
Day 2	Structural features affecting the basicity of amines
Day 3	Preparation of alkyl and aryl amines (reduction of nitro compounds, nitriles, reductive amination of aldehydic and ketonic compounds.
Day 4	Gabriel phthalimide reaction, Hofmann bromamide reaction.

Day 5	Electrophilic aromatic substitution in aryl amines, reactions of amines with nitrous acid.
Day 6	Revision
Day 7	Mechanism of diazotization, the structure of benzene diazonium chloride.
Day 8	Mechanism of diazotization, the structure of benzene diazonium chloride
Day 9	Reduction of diazonium salts to hydrazines.
Day 10	Coupling reaction and its synthetic application.
Day 11	Test
Day 12	Preparation of nitro alkanes and nitro arenes and their chemical reactions
Day 13	Mechanism of electrophilic substitution reactions in nitro arenes and their reductions in acidic, neutral, and alkaline medium.
Day 14	Nitro arenes and their reductions in acidic, neutral, and alkaline medium.
Day 15	Nomenclature and structure of the carbonyl group. Synthesis of aldehydes and ketones.
Day 16	Advantage of oxidation of alcohols with chromium trioxide (Sarett reagent) pyridinium chlorochromate (PCC) and pyridinium dichromate., Physical properties
Day 17	Advantage of oxidation of alcohols with chromium trioxide (Sarett reagent) pyridinium chlorochromate (PCC) and pyridinium dichromate., Physical properties
Day 18	Test
Day 19	Advantage of oxidation of alcohols with chromium trioxide (Sarett reagent) pyridinium chlorochromate (PCC) and pyridinium dichromate.
Day 20	Advantage of oxidation of alcohols with chromium trioxide (Sarett reagent) pyridinium chlorochromate (PCC) and pyridinium dichromate., Physical properties
Day 21	Revision
Day 22	Wittig reaction. Mannich reaction
Day 23	Oxidation of aldehydes, Baeyer–Villiger oxidation of ketones, Cannizzaro reaction. MPV.
Day 24	Clemmensen, Wolff-Kishner.
Day 25	LiAlH4 and NaBH4 reductions. Molecular vibrations, Hooke's law, selection rules
Day 26	Molecular vibrations, Hooke's law, selection rules.
Day 27	Intensity and position of IR bands, measurement of IR spectrum, fingerprint region.
Day 28	Interpretation of IR spectra of organic compounds.
Day 29	Applications of IR spectroscopy in structure elucidation of simple organic compounds
Day 30	Revision
Day 31	Revision
Day 32	Presentation
Day 33	Coupling reaction doubt class

Day 34	Advantage of oxidation of alcohols with chromium trioxide (Sarett reagent) pyridinium chlorochromate (PCC) and pyridinium dichromate., Physical properties (Revision)
Day 35	Amines (Revision)
Day 36	Baeyer–Villiger oxidation of ketones (Revision)
Day 37	Nitro doubt class
Day 38	IR
Day 39	Hofmann bromamide reaction (Revision)
Day 40	Revision
Day 41	Revision
Day 42	Revision
Day 43	Revision
Day 44	Revision
Day 45	Revision

Name of the professor: Ms. Kritika

Class And Section: B.Sc 2nd sem (Med)

Subject: Physical Chemistry

Day 1	Rate of reaction, rate equation.
Day 2	Factors influencing the rate of a reaction – concentration, temperature, pressure, solvent, light, catalyst.
Day 3	Order of a reaction, integrated rate expression for zero order.
Day 4	First order, second and third order reaction.
Day 5	The half-life period of a reaction.
Day 6	Methods of determination of the order of the reaction. (Test)
Day 7	Effect of temperature on the rate of reaction – Arrhenius equation.
Day 8	Effect of temperature on the rate of reaction – Arrhenius equation.
Day 9	Transition state theory of Biomolecular reactions. (Revision)
Day 10	Electrolytic conduction, factors affecting electrolytic conduction.
Day 11	Specific, conductance, molar conductance, equivalent conductance.
Day 12	Specific, conductance, molar conductance,equivalent conductance
Day 13	Arrhenius theory of ionization, Ostwald's Dilution Law. D
Day 14	Debye- Huckel – Onsager's equation for strong electrolytes (elementary).
Day 15	Transport number, definition, and determination by Hittorfs methods, (numerical included).
Day 16	Kohlarausch's Law
Day 17	Calculation of molar ionic conductance and effect of viscosity temperature & pressure on it
Day 18	Test
Day 19	Calculation of molar ionic conductance and effect of viscosity temperature & pressure on it.
Day 20	Applications of conductivity measurements (Introduction)
Day 21	Revision
Day 22	Determination of degree of dissociation
Day 23	Determination of degree of dissociation
Day 24	Conductometric titrations. (Revision)
Day 25	Conductometric titrations.
Day 26	Definition of pH and pK
Day 27	Definition of pH and pK
Day 28	Henderson – Hazel equation.
Day 29	Buffer mechanism of buffer action.
Day 30	Revision

Name of the professor: Dr Monika **Class And Section: B.Sc. N-M 1st** **Sem Subject: Physical Chemistry**	
Day 1	Unit 1 - Classification of solids
Day 2	Laws of crystallography – (i) Law of constancy of interfacial angles (ii) Law ofrationality of indices (iii) Law of symmetry.
Day 3	Symmetry elements of crystals.
Day 4	Definition of unit cell & space lattice.
Day 5	Definition of unit cell & space lattice.
Day 6	X ray diffraction by crystals.
Day 7	Definition of unit cell & space lattice. Bravais lattices, crystal system. X ray diffraction by crystals. Derivation of Bragg equation.
Day 8	Determination of crystal structure of NaCl, KCl.
Day 9	Liquid crystals: Difference between solids, liquids and liquid crystals,types ofliquid crystals.
Day 10	Applications of liquid crystals
Day 11	Test
Day 12	Unit 2 : Introduction of liquid crystal, Applications of liquid crystals
Day 13	Properties of liquids – surface tension
Day 14	viscosity vapour pressure
Day 15	optical rotations and their determination
Day 16	Test
Day 17	Unit 3 : Maxwell's distribution of velocities and energies (derivation excluded)
Day 18	Maxwell's distribution of velocities and energies (derivation excluded)
Day 19	average velocity and most probable velocity.
Day 20	average velocity and most probable velocity.
Day 21	Deviation of Real gases from ideal behaviour.
Day 22	Deviation of Real gases from ideal behaviour. its application in the calculation ofBoyle's temperature (compression factor)
Day 23	its application in the calculation of Boyle's temperature (compression factor)
Day 24	Unit-4 Critical Phenomenon: Critical temperature, Critical pressure, criticalvolume and their determination.
Day 25	PV isotherms of real gases, continuity of states, the isotherms of Vander Waal'sequation, relationship between critical constants and Vander Waal"s constants.
Day 26	Critical compressibility factor.
Day 27	Critical compressibility factor.
Day 28	Revision
Day 29	Revision
Day 30	Revision

Name of the professor: Deepti Ahuja

Class And Section: B.Sc. 3rd Year (N.Med.) 6th SEM

Subject: Inorganic Chemistry

Day 1	Definition, nomenclature and classification of organometallic compounds.
Day 2	Preparation, properties, and bonding of alkyls of Li
Day 3	Preparation, properties, and bonding of alkyls of Al,
Day 4	Preparation, properties, and bonding of alkyls of Hg
Day 5	Preparation, properties, and bonding of alkyls of Sn
Day 6	A brief account of metal-ethylenic complexes
Day 7	Mononuclear carbonyls
Day 8	The nature of bonding in metal carbonyls.
Day 9	Arrhenius, Bronsted Lewis concepts of acids & bases
Day 10	Lowry, the Lux – Flood concepts of acids & bases
Day 11	Solvent system and Lewis concepts of acids & bases
Day 12	Relative strength of acids & bases
Day 13	Concept of Hard and Soft Acids & Bases.
Day 14	Symbiosis, electronegativity and hardness and softness
Day 15	Essential elements in biological processes
Day 16	Trace elements in biological processes
Day 17	Metalloporphyrins haemoglobin
Day 18	Metalloporphyrins myoglobin
Day 19	Biological role of alkali
Day 20	Biological role of alkaline earth metal ions .
Day 21	Biological role of Ca2+.
Day 22	Nitrogen fixation.
Day 23	Silicones preparation
Day 24	Silicones properties
Day 25	Silicones structure
Day 26	Silicones uses
Day 27	Phosphazenes, preparation
Day 28	Phosphazenes properties
Day 29	Phosphazenes structure
Day 30	Phosphazenes uses

Name of the professor: Ms. Priyanka Bhatia **Class And Section: B.Sc. 6th SEM.** **(med/non-med)Subject: Organic Chemistry** **Paper code :CH 602**	
Day 1	Molecular orbital picture and aromatic characteristics of pyrrole, furan, thiophene and pyridine
Day 2	Methods of synthesis and chemical reactions with particular emphasis on the mechanism of electrophilic substitution
Day 3	. Mechanism of nucleophilic substitution reactions in pyridine derivatives.
Day 4	Comparison of basicity of pyridine, piperidine and pyrrole
Day 5	Introduction to condensed five and six- membered heterocycles. Prepration and reactions of indole,
Day 6	Prepration and reactions of quinoline with special reference to Fisher indole synthesis, Skraup synthesis and Bischler-Napieralski synthesis.
Day 7	Isoquinoline with special reference to Fisher indole synthesis,
Day 8	Skraup synthesis and Bischler-Napieralski synthesis
Day 9	Mechanism of electrophilic substitution reactions of, quinoline and isoquinoline
Day 10	Nomenclature, structural features, Methods of formation
Day 11	chemical reactions of thiols, thioethers,
Day 12	chemical reactions of sulphonic acids, sulphonamides and sulphaguanidine.
Day 13	Synthetic detergents alkyl and aryl sulphonates
Day 14	Acidity of -hydrogens, alkylation of diethyl malonate and ethyl acetoacetate
Day 15	Synthesis of ethyl acetoacetate: the Claisen condensation
Day 16	Keto-enol tautomerism of ethyl acetoacetate.
Day 17	Addition or chain-growth polymerization
Day 18	Free radical vinyl polymerization
Day 19	ionic vinyl polymerization
Day 20	Ziegler-Natta polymerization and vinyl polymers
Day 21	Condensation or step growth polymerization
Day 22	Condensation or step growth polymerization.
Day 23	Polyesters ,polyamides, phenol formaldehyde resins, urea formaldehyde resins
Day 24	Epoxy re sins and polyurethanes. Natural and synthetic rubbers.
Day 25	Classification, of amino acids.
Day 26	Acid-base behavior, isoelectric point and electrophoresis
Day 27	Preparation of -amino acids.Structure and nomenclature of peptides and proteins.
Day 28	Classification of proteins. Peptide structure determination, end group analysis, selective hydrolysis of peptides.
Day 29	Classical peptide synthesis, solid– phase peptide synthesis.
Day 30	Structures of peptides and proteins: Primary & Secondary structure

Name of the professor: Ms. Sonia Bisht

Class And Section: M.Sc. (F)Chemistry

Subject: Inorganic Special-VI (Medicinal Aspects of Inorganic Chemistry), 17CHE24GA3

Day 1	Biochemical Bases of Essential Metal Deficient Diseases; Iron
Day 2	Copper Deficiencies and Their Therapies
Day 3	Zinc Deficiencies and Their Therapies
Day 4	Carcinogens and Carcinostatic Agents
Day 5	Zinc in Tumour Growth and Inhibition
Day 6	Anticancer Activity of Rhodium
Day 7	Anticancer Activity of Copper
Day 8	Anticancer Activity of Gold
Day 9	Anticancer Activity of Selenium
Day 10	Antibacterial Properties of Metal Complexes
Day 11	Antiviral Properties of Metal Complexes
Day 12	Polyamino Carboxylic Acids
Day 13	Polyethylene Amines as Chelating Drugs
Day 14	Test of Unit-I
Day 15	Drugs In Hypo and Hyper Activity of Thyroids
Day 16	Inorganic Drugs in Dental Carries
Day 17	Clinical Disorders of Alkali Earth Metals And Their Remedies
Day 18	Clinical Disorders of Alkaline Earth Metals And Their Remedies
Day 19	Lithium Drugs in Psychiatry
Day 20	Heavy Metals in Biological Systems

Day 21	Toxicity of Heavy Metals
Day 22	Heavy Metals – and Their Detoxification
Day 23	Role of Selenium In Biological Systems With Reference To Its Essentiality
Day 24	Role of Selenium In Biological Systems With Reference To Its Toxicity
Day 25	Mechanism of Metal Ion Induced Toxicity
Day 26	Revision
Day 27	Mechanism of Metal Ion Induced Toxicity
Day 28	Assignment -I
Day 29	Interaction Between Orally Administered Drugs and Metal Ions In Gut.
Day 30	Interaction Between Orally Administered Drugs and Metal Ions In Gut.
Day 31	Test of Unit-Ii
Day 32	Revision
Day 33	Previous Year Paper Discussion
Day 34	Revision
Day 35	Ligand Therapy
Day 36	Ligand Induced Toxicity
Day 37	Ligand Induced Toxicity
Day 38	Interference With Haemoglobin In Oxygen Transport System
Day 39	Interference With Haemoglobin In Oxygen Transport System
Day 40	Beneficial Effects of Ligand Chelation
Day 41	Beneficial Effects of Ligand Chelation
Day 42	Carcinogenic Ligands
Day 43	Carcinostatic Ligands
Day 44	Alkylating Agents As Anticancer Drugs

Day 45	Thiosemicarbazones As Anticancer Drugs
Day 46	Macro cyclic Antibiotic Ligands And Probable Mechanism of The Drug
Day 47	Antiviral Activity of Chelating Agents
Day 48	Antiviral Activity of Chelating Agents
Day 49	Aspirin Chelation
Day 50	Drugs Where Chelation And Therapeutic Activity Are Unrelated
Day 51	Drugs Where Chelation And Therapeutic Activity Are Unrelated
Day 52	Test of Unit-Iii
Day 53	Revision
Day 54	Vitamins And Their Functions In General
Day 55	Vitamin-A
Day 56	Vitamin-D
Day 57	Vitamin-K
Day 58	Vitamin-E
Day 59	Vitamin-B1,B2,B5
Day 60	Vitamin- B7,B9,B12
Day 61	Vitamin-C
Day 62	Dietary Minerals
Day 63	Calcium & Phosphorus
Day 64	Sodium & Potassium
Day 65	Magnesium & Sulfur
Day 66	Chlorine, Iodine & Fluorine
Day 67	Selenium & Iron
Day 68	Copper And Zinc

Day 69	Assignment-Ii
Day 70	Antioxidants And Their Health Effects
Day 71	Biomineralisation
Day 72	Radio pharmacology
Day 73	Nuclear Medicines
Day 74	Nuclear Medicines
Day 75	Technetium – 99m
Day 76	Technetium – 99m
Day 77	Gallium Scan
Day 78	Indium Scan
Day 79	Test Of Unit-Iv
Day 80	Revision of Section A
Day 81	Revision of Section A
Day 82	Revision of Section B
Day 83	Revision of Section B
Day 84	Revision of Section C
Day 85	Revision of Section C
Day 86	Revision of Section D
Day 87	Revision of Section D
Day 88	Previous Year Paper Discussion
Day 89	Previous Year Paper Discussion
Day 90	Revision of Full Syllabus

Name of the professor: Ms. Neha

Class And Section: B.Sc Medical 6th
Semester (SEC A and B)

Subject: Economic Botany
Paper code: 6.2

Day 1	Introduction to Economy Botany
Day 2	Vavilov's centers of origin of crop plants. Origin ,distribution, Botanical description of wheat
Day 3	Origin ,distribution, Botanical description of Rice
Day 4	Origin ,distribution, Botanical description of maize
Day 5	Origin, distribution , Economic importance & Cultivation of Gram
Day 6	Origin, distribution , Economic importance & Cultivation of arhar
Day 7	Origin, distribution , Economic importance & Cultivation of pea
Day 8	Origin, distribution , Economic importance & Cultivation of Potato
Day 9	Origin, distribution , Economic importance & Cultivation of Tomato
Day 10	Origin, distribution , Economic importance & Cultivation of 0nion
Day 11	Test of Rice, Wheat , Maize, Gram, Arhar, Pea
Day 12	Assignment On the above mentioned topics
Day 13	Origin, distribution , Botanical description, cultivation of ground nut
Day 14	Origin, distribution , Botanical description, cultivation of Mustard
Day 15	Origin, distribution , Botanical description, cultivation of Sunflower
Day 16	Origin, distribution , Botanical description, cultivation of Coconut
Day 17	Revision of Unit I & II
Day 18	Group discussion & seminar on topics covered
Day 19	Test of Unit I and unit ll
Day 20	Morphological description, brief idea of cultivation and uses of Coriander
Day 21	Morphological description, brief idea of cultivation and uses of Ferula
Day 22	Morphological description, brief idea of cultivation and uses of Ginger
Day 23	Morphological description, brief idea of cultivation and uses of Turmeric
Day 24	Morphological description, brief idea of cultivation and uses of Clove
Day 25	Assignment On spices
Day 26	Morphological description, cultivation and uses of Medical plants: Cinchona
Day 27	Medicinal plants Rouwolfia, Atropa, Withania
Day 28	Medicinal plants Opium, Cannabis, Azadirachta
Day 29	Botanical description , processing, uses of Beverages
Day 30	Botanical description , processing, uses of Tea & Coffee
Day 31	Botanical description , processing, uses of Rubber
Day 32	Test of Medicinal plants & Beverages
Day 33	Botanical description , processing, uses of Sugarcane
Day 34	Assignment On sugarcane

Day 35	Assignment On medicinal plants & beverages
Day 36	General account & sources of timber
Day 37	Energy plantation
Day 38	General account of teak ,sal , and pine
Day 39	Carbon trading
Day 40	Biofuels
Day 41	Test of unit -3
Day 42	Assignment on Biofuels
Day 43	Revision
Day 44	Revision On Timber & Biofuels
Day 45	Test of unit 4
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Name of the professor: Ms. Neha **Class And Section: B.Sc Medical 6th Semester (SEC A and B)Subject:** **Biochemistry and Plant Biotechnology , Paper code :6.1**	
Day 1	Introduction to biochemistry and Biotechnology
Day 2	Basics of Enzymology,Definition and general aspects
Day 3	Discovery, Nomenclature and characters of enzyme
Day 4	Mechanism of Enzymes,Types,Regulation of its activity of enzymes
Day 5	Test and Revision of Enzymes
Day 6	Introduction to Respiration,RQ values
Day 7	Substrates, aerobic and anaerobic respiration, Fermentation
Day 8	Mechanism of aerobic and anaerobic respiration
Day 9	EMP,pathway,Kerb cycle
Day 10	,ETC,chemo osmotic theory
Day 11	Oxidative phosphorylation,
Day 12	Pentose Phosphate Pathway ,its significance
Day 13	Factors affecting rate of respiration
Day 14	ATP(Energy coupling factors)

Day 15	Structure and Functions of ATP
Day 16	Alternative pathway of Glucose Breakdown
Day 17	Redox potential and ETC(EMP) Pathway
Day 18	Doubts and Seminar on Unit-11
Day 19	Test of topics covered and revision of respiration
Day 20	Structure and Functions of Lipids
Day 21	Structure of Fats,Glycerol & Fatty acids
Day 22	Fatty acids Biosynthesis
Day 23	L & B Oxidation, saturated and Unsaturated Fatty acids
Day 24	Storage and metabolism of fatty acids
Day 25	Importance of Fat metabolism
Day 26	Nitrogen, its metabolism, Basic idea
Day 27	Biology of Nitrogen metabolism
Day 28	Importance of nitrate reductase and Nitrogen cycle
Day 29	Regulation of Nitrogen Metabolic pathway, Ammonium assimilation
Day 30	Test of lipid and Nitrogen Metabolism/ Assignment on the topics taught
Day 31	DNA:-its structure, Function and importance
Day 32	Introduction to tools and techniques of DNA
Day 33	Techniques of recombinant DNA technology
Day 34	Cloning vectors, Genomics &cDNA library
Day 35	Transposable elements
Day 36	Plant tissue Culture,its application
Day 37	Differentiation, Morphogenesis and Biology of Agrobacterium,
Day 38	Vectors
Day 39	Marker genes

Day 40	Test and Revision of the topics covered
Day 41	Revision /assignment on the topics taught
Day 42	Revision of unit-1
Day 43	Revision of unit-2
Day 44	Revision of unit-3

Name of the professor: Ms. Kritika **Class And Section: B.Sc. 2nd sem** **(Med/NON-MED)** **Subject: Physical Chemistry** **Paper code : CH203**	
Day 1	**Unit 1 - Kinetics-I** Rate of reaction, rate equation.
Day 2	Factors influencing the rate of a reaction – concentration, temperature, pressure, solvent, light, catalyst.
Day 3	Order of a reaction, integrated rate expression for zero order.
Day 4	First order, second and third order reaction.
Day 5	Half life period of a reaction.
Day 6	Methods of determination of order of reaction.
Day 7	Test / Assignment
Day 8	**Unit 2 - Kinetics-II** Effect of temperature on the rate of reaction – Arrhenius equation.
Day 9	Theories of reaction rate – Simple collision theory for unimolecular and bimolecular collision
Day 10	Transition state theory of Bimolecular reactions. (Revision)
Day 11	**Unit 3 - Electrochemistry-I** Electrolytic conduction, factors affecting electrolytic conduction.
Day 12	Specific conductance, molar conductance, equivalent conductance.
Day 13	Relation among them, their variation with concentration
Day 14	Arrhenius theory of ionization, Ostwald's Dilution Law.
Day 15	Debye- Huckel – Onsager's equation for strong electrolytes (elementary).
Day 16	Transport number, definition and determination by Hittorf's method (numerical included).
Day 17	Test / Assignment
Day 18	**Unit 4 - Electrochemistry-II** Kohlarausch's Law
Day 19	Calculation of molar ionic conductance and effect of viscosity temperature & pressure on it
Day 20	Application of Kohlarausch's Law in calculation of conductance of weak electrolytes at infinite dilution.
Day 21	Applications of conductivity measurements (Introduction)
Day 22	Determination of degree of dissociation
Day 23	Determination of Ka of acids determination of solubility product of sparingly soluble salts
Day 24	Conductometric titrations.
Day 25	Definition of pH and pKa
Day 26	Buffer solution, Buffer action
Day 27	Henderson – Hazel equation.
Day 28	Buffer mechanism of buffer action.
Day 29	Revision
Day 30	Test / Assignment

Name of the professor: Ms. Kritika

Class And Section: B.Sc. 3rd Year
(Med.) 6th SEM

Subject: Inorganic Chemistry ,Paper code : CH 601

Day 1	Definition, nomenclature and classification of organometallic compounds.
Day 2	Preparation, properties, and bonding of alkyls of Li
Day 3	Preparation, properties, and bonding of alkyls of Al
Day 4	Preparation, properties, and bonding of alkyls of Hg
Day 5	Preparation, properties, and bonding of alkyls of Sn
Day 6	A brief account of metal-ethylenic complexes
Day 7	Mononuclear carbonyls
Day 8	The nature of bonding in metal carbonyls.
Day 9	Arrhenius, Bronsted Lewis concepts of acids & bases
Day 10	Lowry, the Lux – Flood concepts of acids & bases
Day 11	Solvent system and Lewis concepts of acids & bases
Day 12	Relative strength of acids & bases
Day 13	Concept of Hard and Soft Acids & Bases.
Day 14	Symbiosis, electronegativity and hardness and softness
Day 15	Essential elements in biological processes
Day 16	Trace elements in biological processes
Day 17	Metalloporphyrins, haemoglobin
Day 18	Metalloporphyrins myoglobin
Day 19	Biological role of alkali and alkaline earth metal ions
Day 20	Test / Assignment
Day 21	Biological role of Ca2+.
Day 22	Nitrogen fixation.
Day 23	Silicones preparation
Day 24	Silicones properties
Day 25	Silicones structure
Day 26	Silicones uses
Day 27	Phosphazenes, preparation
Day 28	Phosphazenes properties
Day 29	Phosphazenes structure
Day 30	Phosphazenes uses

Name of the professor: Pinki Rani **Class And Section: B.Sc. (Non Med.) Sem.- 6th** **Subject: Nuclear physics** **Paper Code: PHY-602**	
Day 1	Introduction of Nuclear Physics
Day 2	Nuclear mass and Binding energy
Day 3	Nuclear size, spin, parity
Day 4	Numerical Problem on Binding energy and nuclear size
Day 5	Magnetic dipole moment, quadrupole moment
Day 6	Bain Bridge Spectrograph
Day 7	Bain Bridge and Jordon mass spectrograph
Day 8	Doubt Class
Day 9	Determination of charge by Mosley law
Day 10	Rutherford back Scattering
Day 11	Revision
Day 12	Doubt class of unit 1
Day 13	Class test
Day 14	Introduction of unit 2: Interaction of charged particles
Day 15	Alpha disintegration
Day 16	Range and struggling of alpha particles
Day 17	Geiger Nuttal law
Day 18	Numerical problems
Day 19	Neutrino Hypothesis and interaction of beta particles
Day 20	Range of electrons and absorption of beta particles
Day 21	Interaction of gamma rays
Day 22	Doubt class
Day 23	Absorption of gamma rays and its application
Day 24	Doubt class of unit 2
Day 25	Class test
Day 26	Introduction of unit 3
Day 27	Nuclear reactions
Day 28	Elastic and inelastic scattering
Day 29	Nuclear disintegration , photonuclear reaction
Day 30	Heavy ion and spallation reaction, conservation laws
Day 31	Q- value and Threshold reactions
Day 32	Numerical problems and doubts
Day 33	Nuclear reactors, general aspects of reactor design
Day 34	Nuclear Fission reactor
Day 35	Nuclear Fusion reactor
Day 36	Van de graff accelerator, Linear Accelerator
Day 37	Class test

Day 38	Cyclotron and Betatron accelerator
Day 39	Ionization Chamber, Proportional counter
Day 40	Geiger Muller Counter
Day 41	Tendem accelerator
Day 42	Scintillation counter and semiconductor detector
Day 43	Revision
Day 44	Doubt Class
Day 45	Revision
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Name of the professor: Pinki Rani **Class And Section: B.Sc. (Non Med.) Sem.- 2nd** **Subject: Properties of Matter, Kinetic Theory and Relativity** **Paper Code: PHY- 201**	
Day 1	Elasticity
Day 2	Hook's Law
Day 3	Elastic Constants and Their Relations
Day 4	Numerical Problem on Elasticity and Hook's law
Day 5	Poisson's ratio
Day 6	Torsion of Cylinder
Day 7	Twisting Couple
Day 8	Doubt Class
Day 9	Bending of beam
Day 10	Revision
Day 11	Class test
Day 12	Cantilever and Centrally loaded Beam
Day 13	Doubt class of unit 1
Day 14	Introduction of unit 2: Kinetic Theory of gases
Day 15	Law of equipartition of energy
Day 16	Specific heat of energy
Day 17	Maxwell distribution of speed
Day 18	Numerical problems
Day 19	Maxwell distribution of velocity
Day 20	Experimental verification of Maxwell laws
Day 21	Presentation
Day 22	Most probable speed, average speed
Day 23	R.M.S. speed, Mean free path
Day 24	Class test
Day 25	Brownian motion

Day 26	Doubt class
Day 27	Vander waal's equations
Day 28	Real gas and ideal gas
Day 29	Doubt class of unit 2
Day 30	Intro of unit 3
Day 31	Reference system
Day 32	Gallilean Transformation
Day 33	Gallilean Invariance
Day 34	Conservation law of Gallilean transformation
Day 35	Revision
Day 36	Newtonian relativity Principle
Day 37	Michelson- Morley Experiment
Day 38	Search for ether
Day 39	Class test

Day 40	Lorentz Transformation
Day 41	Length contraction, Time dilation
Day 42	Variation of mass with velocity and mass energy equivalence
Day 43	Revision
Day 44	Doubt Class
Day 45	Revision
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Name of the professor:Ms. Kajal Bhati
Class And Section: B.Sc. (Non Med.) Sem.- 4Th
Subject: Statistical physics
Paper code:PHY-401

Day 1	Probability
Day 2	Some probability consideration
Day 3	Combination possessing maximum probability
Day 4	Numerical problem
Day 5	Distribution of molecules in two boxes
Day 6	Case with weightage
Day 7	Phase space
Day 8	Doubt Class
Day 9	Microstate and macro State
Day 10	Revision
Day 11	Class test
Day 12	Statistical fluctuations
Day 13	Doubt class of unit 1
Day 14	Introduction of unit 2: postulate of statistical physics
Day 15	Division of phase space
Day 16	Condition of equilibrium
Day 17	Thermal contact
Day 18	Numerical problem
Day 19	B-Parameter
Day 20	Entropy and probability
Day 21	Presentation
Day 22	Evaluation of a and b
Day 23	Bose Einstein statistics
Day 24	Class test

Day 25	Application of b.e statistics
Day 26	Doubt class
Day 27	Plank radiation law
Day 28	B.E gas
Day 29	Doubt class of unit 2
Day 30	Intro of unit 3
Day 31	Fermi dirac statistics
Day 32	M.B dirac statistics
Day 33	M.B law as a limiting case of B.E
Day 34	Degeneracy
Day 35	Revision
Day 36	F.D gas
Day 37	Electron gas in a metal
Day 38	Zero point energy
Day 39	Class test
Day 40	Specific heat of metals
Day 41	Solution of specific heat
Day 42	Specific energy of a system
Day 43	Revision
Day 44	Doubt Class
Day 45	Revision
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Name of the professor:Ms. Reeta Kumari
Class And Section: B.Sc. (Non Med.) Sem.- 2nd
Subject: Electromagnetic Induction And Electronic Devices

Paper Code- PHY-202

Day 1	Electromagnetic induction
Day 2	Growth & decay
Day 3	Capacitance & Resistance
Day 4	Numerical Problem on capacitance and resistance
Day 5	Resistance and capacitance
Day 6	Numerical problem
Day 7	Capacitance and inductance
Day 8	Doubt Class
Day 9	AC circuit analysis
Day 10	Revision
Day 11	Class test
Day 12	Ac circuit using variable capacitance and inductance
Day 13	Doubt class of unit 1
Day 14	Introduction of unit 2-semicondutor diodes
Day 15	Energy band in solids
Day 16	Intrinsic and extrinsic semiconductor
Day 17	Hall effect and pn junction diode
Day 18	Numerical problems
Day 19	Led , solar cell, photodiodes
Day 20	Experimental verifications
Day 21	Presentation
Day 22	Diode rectifier
Day 23	Transistor
Day 24	Class test
Day 25	Working of npn and pnp transistor
Day 26	Doubt class
Day 27	C.R.O and its application
Day 28	Transistor characteristics curve
Day 29	Doubt class of unit 2
Day 30	Intro of unit 3- Transistor Amplifier
Day 31	Transistor biasing
Day 32	Methods of biasing
Day 33	D.C load line

Day 34	Common base and common emitter biasing
Day 35	Revision
Day 36	Common base and emitter amplifier
Day 37	RC coupled amplifier
Day 38	CB,CC,CE MODE
Day 39	Class test
Day 40	Feedback in amplifier
Day 41	Advantages of negative feedback
Day 42	Oscillator and its types
Day 43	Revision
Day 44	Doubt Class
Day 45	Revision
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Name of the professor: Ms. Shivani Gandhi

Class And Section:B.com CA 1st Sec -C and D

Subject: Business mathematics

Day 1	Introduction of syllabus
Day 2	Matrices and determinents
Day 3	Definition of a matrix
Day 4	Types of matrices
Day 5	Algebra of matrices
Day 6	Calculation of values of determinents up to third order
Day 7	Adjoint of a matrix
Day 8	Elementary row and column operation
Day 9	Solution of a system of linear equations
Day 10	Cramer's rule
Day 11	Problem based
Day 12	Problem based
Day 13	Problem based
Day 14	Problem based
Day 15	Problem based
Day 16	Doubt class
Day 17	Doubt class
Day 18	Doubt class
Day 19	Assignment
Day 20	Test

Day 21	Introduction about Differentiation
Day 22	Differentiation on algebraic problems
Day 23	Application of differentiation
Day 24	Problem based
Day 25	Problem based
Day 26	Problem based
Day 27	Problem based
Day 28	Problem based
Day 29	Problem based
Day 30	Revision
Day 31	Revision
Day 32	Revision
Day 33	Revision
Day 34	Doubt class
Day 35	Doubt class
Day 36	Doubt class
Day 37	Doubt class
Day 38	Doubt class
Day 39	Doubt class
Day 40	Test
Day 41	Assignment
Day 42	Introduction of compound interest and annuities
Day 43	Certain different types of interest rate
Day 44	Problem based

Day 45	Problem based
Day 46	Concept of present value
Day 47	Amount of a sum
Day 48	Types of annuities
Day 49	Present value
Day 50	Amount of an annuities
Day 51	Problem based
Day 52	Problem based
Day 53	Problem based
Day 54	Problem based
Day 55	Problem based
Day 56	Problem based
Day 57	Problem based
Day 58	Problem based
Day 59	Problem based
Day 60	Problem based
Day 61	Doubt class
Day 62	Doubt class
Day 63	Doubt class
Day 64	Doubt class
Day 65	Doubt class
Day 66	Revision
Day 67	Revision
Day 68	Test

Day 69	Assignment
Day 70	Ratio and proportion
Day 71	Problem based
Day 72	Problem based
Day 73	Problem based
Day 74	Problem based
Day 75	Percentage
Day 76	Problem based
Day 77	Problem based
Day 78	Profit and loss
Day 79	Problem based
Day 80	Test
Day 81	Assignment
Day 82	Revision
Day 83	Revision
Day 84	Revision
Day 85	Revision
Day 86	Revision
Day 87	Revision
Day 88	Revision
Day 89	Revision
Day 90	Revision

Name of the Assistant/Associate Professor: Ms. Shivani Gandhi **Class And Section: B.Sc. (NM) 4th Sem and B.A. 4th Sem** **Subject: Programming in 'C' and Numerical methods**	
Day 1	Syllabus and examination scheme discussed
Day 2	Ch 1 (Computers: A General Introduction)
Day 3	Continued….. Ch 1 (Computers: A General Introduction)
Day 4	Exercise of Ch-1
Day 5	Exercise of Ch-1
Day 6	Introduction to C (ch-2)
Day 7	Continued….. Introduction to C (ch-2)
Day 8	Exercise of ch-2
Day 9	Data Types (Ch-3)
Day 10	Continued….. Data Types (Ch-3)
Day 11	Exercise of ch-3
Day 12	Operators(ch-4)
Day 13	Continued….. Operators(ch-4)
Day 14	Exercise of Ch-4
Day 15	Doubts of Ch-3 and Ch-4
Day 16	Decision Control Structure (Ch-5)
Day 17	Continued….. Decision Control Structure (Ch-5)
Day 18	Exercise of Ch-5
Day 19	Loops (ch-6)

Day 20	Exercise of Ch-6
Day 21	Doubts in Ch-5 and Ch-6
Day 22	Assignment on Ch 5 and Ch 6
Day 23	Functions (Ch-7)
Day 24	Continued….. Functions (Ch-7)
Day 25	Ex Ch 7
Day 26	Doubts of Ch -7
Day 27	Preprocessor(ch-8)
Day 28	Continued….. Preprocessor(ch-8)
Day 29	Array(ch-9)
Day 30	Continued….. Array(ch-9)
Day 31	Array (ex of ch-9)
Day 32	Array (ex of ch-9)
Day 33	Doubts related to Array
Day 34	String(ch-10)
Day 35	Continued….. String(ch-10)
Day 36	String (ex of Ch-10)
Day 37	Doubts of Ch-10
Day 38	Preliminaries of Numerical Methods
Day 39	Bi-section method and examples
Day 40	Ex of Bi-section method
Day 41	Regula Falsi method and Secant method and Examples
Day 42	Ex of Regula Falsi and Secant Method
Day 43	Newton Rapson Method
Day 44	Examples

Day 45	Exercise of Newton Rapson Method
Day 46	Exercise
Day 47	Order of convergence of above methods
Day 48	Comparative study of above methods
Day 49	Doubts
Day 50	Test
Day 51	Gauss Elimination method and its examples
Day 52	Exercise of Gauss Elimination Method
Day 53	Gauss Jordan Method and its Examples
Day 54	Exercise of Gauss Jordan Method
Day 55	Triangularization Methods: Doolittle's Method and example
Day 56	Grout's Triangularization Method and example
Day 57	Exercise of Doolittle's Method and Grout's riangularization Method
Day 58	Grout's method
Day 59	Exercise of Grout's method
Day 60	Cholesky's Decomposition Method and its Examples
Day 61	Exercise of Cholesky's Decomposition Method
Day 62	Iterative Methods: Jacobi's Method and its Example
Day 63	Exercise
Day 64	Gauss Seidel's Method and its Example
Day 65	Exercise
Day 66	Relaxation Method and its Example
Day 67	Exercise of Iterative Methods
Day 68	Doubts

Day 69	Test
Day 70	Ch-11 (Structures and Unions): Structures
Day 71	Ch-11 (Structures and Unions): Unions
Day 72	Ch-12 (Pointers)
Day 73	Exercise of Pointers
Day 74	REVISION of chapter 1 and 2
Day 75	REVISION of chapter 3 and 4
Day 76	REVISION of chapter 5 and 6
Day 77	REVISION of chapter 7 and 8
Day 78	REVISION of chapter 9 and 10
Day 79	REVISION of chapter 11 and 12
Day 80	REVISION of chapter 13 and 14
Day 81	REVISION of Bisection Method, Regula Falsi Method, Newton Method
Day 82	REVISION of Gauss Elimination and Gauss Jordan Methods
Day 83	REVISION of Doolittle's, Crout's Triangularization and Crout's Method
Day 84	REVISION of Cholesky's Decomposition, Jacobi's, Gauss Seidel's and Relaxation Methods
Day 85	Question Paper 2017
Day 86	Question Paper 2018
Day 87	Question Paper 2019
Day 88	Question Paper 2020
Day 89	Question Paper 2021
Day 90	Question Paper 2022

Name of the professor: Ms. Vandana Kumari **Class And Section: B.Sc. (Non Med)& BA** **Semester-6th Subject: Dynamics**	
Day 1	Syllabus and examination scheme discussed
Day 2	Preliminary
Day 3	Preliminary
Day 4	SHM articles
Day 5	SHM examples
Day 6	SHM exercise
Day 7	SHM exercise
Day 8	SHM exercise
Day 9	Doubts of SHM
Day 10	Articles of Elastic String
Day 11	Articles of Elastic String
Day 12	Examples of Elastic String
Day 13	Exercise of Elastic String
Day 14	Exercise of Elastic String
Day 15	Doubts of Elastic String
Day 16	Test of SHM and Elastic String
Day 17	Newton's Laws of Motion (Examples Ex 5.1)
Day 18	Newton's Laws of Motion (Examples Ex 5.1)
Day 19	Newton's Laws of Motion (Ex 5.1)
Day 20	Newton's Laws of Motion (Ex 5.1)

Day 21	Newton's Laws of Motion (Articles Ex 5.2)
Day 22	Newton's Laws of Motion (Examples & Ex 5.2)
Day 23	Newton's Laws of Motion (Articles Ex 5.3)
Day 24	Newton's Laws of Motion (Examples Ex 5.3)
Day 25	Newton's Laws of Motion (Ex 5.3)
Day 26	Doubts of Newton's Laws of Motion
Day 27	Work done (Articles and Examples Ex 6.1)
Day 28	Work done (Ex 6.1)
Day 29	Power (Articles and Examples Ex 6.2)
Day 30	Power (Ex 6.2)
Day 31	Energy (Articles and Examples)
Day 32	Energy (Articles and Examples)
Day 33	Energy (Ex 6.3)
Day 34	Energy (Ex 6.3)
Day 35	Doubts of Work, Power and Energy
Day 36	Test
Day 37	Projectile (Articles of Ex 8.1)
Day 38	Projectile (Examples of Ex 8.1)
Day 39	Projectile (Ex 8.1)
Day 40	Projectile (Ex 8.1)
Day 41	Examples of Ex 8.2
Day 42	Exercise 8.2
Day 43	Doubts of Ex 8.1 and 8.2
Day 44	Examples and Articles of Ex 8.3

Day 45	Exercise 8.3
Day 46	Doubts of Ex 8.3
Day 47	Examples and Articles of Ex 8.4
Day 48	Exercise 8.4
Day 49	Doubts of Ex 8.4
Day 50	Central Orbits (Articles and Examples of Ex 9.1)
Day 51	Exercise 9.1
Day 52	Articles of Ex 9.2
Day 53	Examples of Ex 9.2
Day 54	Examples of Ex 9.2
Day 55	Exercise 9.2
Day 56	Exercise 9.2
Day 57	Doubts of Chapter 9
Day 58	Test
Day 59	Kepler's Laws of Planetary Motion (Articles and Examples of Ch-10)
Day 60	Exercise 10.1
Day 61	Exercise 10.1
Day 62	Motion along a plane curve (Articles of Ch-1)
Day 63	Examples and Exercise 1.1
Day 64	Examples and Articles of Ex 1.2
Day 65	Exercise 1.2
Day 66	Examples and Articles of Ex 1.3
Day 67	Exercise 1.3
Day 68	Relative Motion (Articles of Ch-2)

Day 69	Examples of Ex 2.1
Day 70	Exercise 2.1
Day 71	Motion of a Particle in Three Dimension (Articles of Ch-2)
Day 72	Examples of Ex 11.1
Day 73	Exercise 11.1
Day 74	Motion of a Particle in Smooth and Rough Plane Curve (Examples and Exercise 7.1)
Day 75	Examples and Exercise 7.2
Day 76	Examples and Exercise 7.3
Day 77	Examples and Exercise 7.4
Day 78	Examples and Exercise 7.5
Day 79	Doubts of Ch-7
Day 80	Revision Unit-1
Day 81	Revision Unit-1
Day 82	Revision Unit-2
Day 83	Revision Unit-2
Day 84	Revision Unit-3
Day 85	Revision Unit-3
Day 86	Revision Unit-4
Day 87	Revision Unit-4
Day 88	Revision
Day 89	Revision
Day 90	Revision

Name of the professor: Ms. Garima Mehta

Class And Section: M.Sc. Mathematics 4th Semester

Subject: Classical Mechanics

Day 1	Introduction of Moments of Inertia
Day 2	Product of Inertia
Day 3	Angular momentum of rigid bodies
Day 4	Principal axis
Day 5	Principal moment of inertia
Day 6	Kinetic energy of rigid bodies
Day 7	Momental ellipsoid
Day 8	Equimomental system
Day 9	Coplanar Mass distribution
Day 10	General motion of rigid bodies
Day 11	Doubts
Day 12	Revision
Day 13	Revision
Day 14	Revision
Day 15	Revision
Day 16	Revision
Day 17	Revision
Day 18	Test
Day 19	Assignment

Day 20	Problems based
Day 21	Problems based
Day 22	Free and Constrained system
Day 23	Constraints and their classification
Day 24	Holonomic system
Day 25	Non Holonomic system
Day 26	Degree of freedom and generalized coordinates
Day 27	Virtual displacement
Day 28	Virtual work
Day 29	Statement of Principle of Virtual work
Day 30	Possible velocity
Day 31	Possible acceleration
Day 32	Ideal constraints
Day 33	General equation of dynamics for Ideal constraints
Day 34	Lagrange equations of first kind
Day 35	D' Alembert's Principle
Day 36	Independent coordinates
Day 37	Generalized forces
Day 38	Lagrange equations of second kind
Day 39	Generalized velocities and acceleration
Day 40	Uniqueness of solution
Day 41	Principle of total energy for conservative fields
Day 42	Lagrange variables
Day 43	Lagrange function

Day 44	Lagrange equations for potential forces
Day 45	Generalized momenta
Day 46	Revision
Day 47	Revision
Day 48	Revision
Day 49	Test
Day 50	Assignment
Day 51	Hamiltonian variable and Hamiltonian function
Day 52	Donkin's theorem
Day 53	Ignorable coordinates
Day 54	Hamilton canonical equations
Day 55	Routh variables and Routh function
Day 56	Routh equation
Day 57	Poisson brackets and their simple properties
Day 58	Poisson Identity
Day 59	Jacobi Poisson theorem
Day 60	Hamilton action and Hamilton principle
Day 61	Poincare Carton Integral Invariant
Day 62	Whittaker equations
Day 63	Whittaker equations continued
Day 64	Jacobi equations
Day 65	Lagranguan action and the principle of least action
Day 66	Revision
Day 67	Revision

Day 68	Revision
Day 69	Test
Day 70	Canonical Transformation
Day 71	Problem based
Day 72	Problem based
Day 73	Necessary and sufficient condition for a canonical transformation
Day 74	Univalent canonical transformation
Day 75	Free canonical transformation
Day 76	Hamilton- Jacobi equation
Day 77	Jacobi theorem
Day 78	Method of separation of variables in Hamilton Jacobi equation
Day 79	Lagrange brackets
Day 80	Canonical character of a transformation in terms of Lagrange brackets
Day 81	Jacobian matrix of a canonical transformation
Day 82	Conditions of canonicity of a transformation in terms of Poisson bracket
Day 83	Invariance of Poisson brackets under canonical transformation
Day 84	Revision
Day 85	Revision
Day 86	Test
Day 87	Revision
Day 88	Revision
Day 89	Revision
Day 90	Revision

Name of the professor: Ms. Garima **Class And Section:B.Sc(NM)& B.A 6th Sem** **Subject: Linear Algebra**	
Day 1	Introduction of vector space and examples
Day 2	Subspace and properties of subspace
Day 3	Linear sum of subspace
Day 4	Direct sum of sub space
Day 5	Examples
Day 6	Linear combination,linear dependence and independence
Day 7	Spanning sets,linear span
Day 8	Finitely generated vector space
Day 9	Basis of a vector space
Day 10	Existence theorem
Day 11	Dimensions of a vector space
Day 12	Theorem related to dimensions of a vector space
Day 13	Identical spaces
Day 14	Dimension of linear sum
Day 15	Complementary subspace
Day 16	Test
Day 17	Quotient space and dimension of quotient space
Day 18	Exercise
Day 19	Linear transformation
Day 20	Properties of linear transformation

Day 21	Examples
Day 22	Theorems of one one and onto transformation
Day 23	Null space and theorems
Day 24	Range space and theorems
Day 25	Fundamental theorem of vector space homomorphism
Day 26	Rank and nuilty theorem
Day 27	Assignment
Day 28	Revision
Day 29	Sum of linear transformation
Day 30	Composition of two linear transformations
Day 31	Singular and nonsingular transformation
Day 32	Examples Discussed
Day 33	Exercise
Day 34	Invertible linear transformation
Day 35	Matrix of linear transformation
Day 36	Matrices of identity and zero transformation
Day 37	Change of basis
Day 38	Examples
Day 39	Exercise
Day 40	Doubt Class
Day 41	Dual space
Day 42	Bi-dual of a vector space
Day 43	Annihilator
Day 44	Exercise

Day 45	Eigen value and eigen vector of a linear transformation
Day 46	Similar natrices and theorems
Day 47	Test
Day 48	Diagonalisation
Day 49	Minimal polynomial
Day 50	Examples
Day 51	Exercise
Day 52	Assignment
Day 53	Test
Day 54	**Doubt Class**
Day 55	Revision ch-9
Day 56	Inner product space
Day 57	Cauchy schwarz inequality
Day 58	Triangle inequality
Day 59	Triangle inequality
Day 60	Orthogonal vector and theorems
Day 61	Orthonormal set and theorems
Day 62	Bessel's inequality
Day 63	Gram-Schmidt theorem
Day 64	Examples
Day 65	Doubt discussion of exercise
Day 66	Test
Day 67	Adjoint operator

Day 68	Self adjoint operator
Day 69	Theorems
Day 70	Doubt discussion
Day 71	Test
Day 72	Revision ch-1
Day 73	Doubt discussion
Day 74	
Day 75	Test
Day 76	Revision ch-2
Day 77	Doubt discussion
Day 78	Test
Day 79	Revision ch-4
Day 80	Doubt discussion
Day 81	Test
Day 82	Revision ch-5
Day 83	Revision ch-6 & 7
Day 84	Doubt discussion
Day 85	Test
Day 86	Revision ch-8 & 9
Day 87	Doubt discussion
Day 88	Test
Day 89	Revision ch-10 & 11
Day 90	Doubt discussion

Name of the professor:Ms.Garima Mehta	
Class And Section: B.Sc & B.A 2nd,	
Subject:Vector calculus	
Day 1	Introduction of syllabus
Day 2	Some definitions based on vector calculus
Day 3	Scalar triple product
Day 4	Vector triple product
Day 5	Difference between scalar and vector product
Day 6	**Examples**
Day 7	Exercise
Day 8	Exercise cont..
Day 9	Doubts
Day 10	Product of four vectors
Day 11	Reciprocal vectors
Day 12	Problems
Day 13	Doubt class
Day 14	Revision
Day 15	Assignment
Day 16	Test
Day 17	Vector Differentiation
Day 18	Scalar valued point function
Day 19	Vector valued point function
Day 20	Examples

Day 21	Exercise
Day 22	Doubt Class
Day 23	**Revision**
Day 24	Derivative along a curve
Day 25	Directional derivatives
Day 26	Examples
Day 27	Examples cont..
Day 28	Examples cont..
Day 29	Exercise
Day 30	Exercise cont..
Day 31	Doubt class
Day 32	Revision
Day 33	Revision
Day 34	Revision
Day 35	Revision
Day 36	Test
Day 37	Gradient of a scalar point function
Day 38	Geometrical representation of a grad phy
Day 39	Character of gradient as a point function
Day 40	Examples
Day 41	Exercise cont..
Day 42	Exercise cont..
Day 43	Exercise cont..
Day 44	Doubt class

Day 45	Test
Day 46	Revision
Day 47	Divergence of vector point function
Day 48	Problems
Day 49	Problems
Day 50	Doubt class
Day 51	Curl of vector point function
Day 52	Examples
Day 53	Test
Day 54	Problems
Day 55	Doubts
Day 56	Characters of divergence f vector
Day 57	Curl f vector as a point function
Day 58	Examples
Day 59	Problems
Day 60	Problems
Day 61	Doubt class
Day 62	Revision
Day 63	Gradient,curl and divergence
Day 64	Doubt class
Day 65	Assignment
Day 66	Test
Day 67	Gradient of sums and product and related vector identities
Day 68	Exercise

Day 69	Exercise
Day 70	Asignment
Day 71	Test
Day 72	Doubt class
Day 73	Curvilinear coordinates system
Day 74	Problems
Day 75	Orthogonality
Day 76	Examples
Day 77	Exercise
Day 78	Exercise cont..
Day 79	Doubt class
Day 80	Doubt class
Day 81	Test
Day 82	Vector integration
Day 83	Line integral
Day 84	Problems
Day 85	Problems
Day 86	Surface integral
Day 87	Problems
Day 88	Revision of Unit 1 &2
Day 89	Revision of Unit 3
Day 90	Revision of Unit 4

Name of the professor:Ms. Garima Mehta **Class And Section:B.Sc & B.A sem 4th** **Subject:Special function & laplace transformation integral**	
Day 1	Introduction to power series and its convergence
Day 2	Interval of convergence
Day 3	Examples & Exercise problems
Day 4	Doubt class
Day 5	Various operation on power series
Day 6	Analytic Function
Day 7	*Existence of power series solution and theorems on it*
Day 8	Solution of differential equations in series about an ordinar ypoint other than zero
Day 9	Frobenius method
Day 10	Example an dExercise problems
Day 11	Doubt class
Day 12	Solution of differential equations when roots of indical equations Are equal
Day 13	Example and Exercise questions
Day 14	Solution of indical equations when roots are un-equal
Day 15	Exercise andExample question
Day 16	Solution of indical equations when roots are un-equal and differbyaninteger
Day 17	ExampleandExercisequestions

Day 18	Doubtclass
Day 19	Introduction to betafunction &itspropertych-2
Day 20	ExampleandExercisequestions
Day 21	Representation ofBessel’sfunctionintegral form
Day 22	ExerciseandExampleproblem
Day 23	OrthogonalityrelationtoBessel’sfunction
Day 24	Revision/presentationofformulas
Day 25	Test Of CH-1 &2
Day 26	Introductiontolegendre'sequations anditssolution CH-3
Day 27	Rodrigue'sformulaandderivationoflegendre’spolynomialfromit.
Day 28	GeneratingFunction
Day 29	*Recurrence Relation*
Day 30	Example and Exercise problems
Day 31	Doub tclass
Day 32	Orthogonalityoflegendre’spolynomial
Day 33	*ExamplesandExercisequestions*
Day 34	Assignment of Ch-3
Day 35	IntroductiontoHermite'sequations andit’ssolution CH-4
Day 36	GeneratingFunctionforHermite’spolynomial
Day 37	*ExamplesandExercisequestions*
Day 38	Rodrigue'sformulaandderivationofHermite’spolynomialfrom It
Day 39	RecurrenceRelation/orthogonalproperties

Day 40	Exercise andExampleproblem
Day 41	Bessel'sequationsandit'ssolution
Day 42	*ExampleandExercisequestions*
Day 43	Representation ofBessel'sfunctionintegral form
Day 44	IntroductiontoLaplace transformationch-5
Day 45	*PropertyofLaplacetransform*
Day 46	ExampleandExercise questions
Day 47	ImportantresultsofLaplacetransform
Day 48	Shiftingtheorem
Day 49	ExamplesandExerciseproblems
Day 50	Laplacetransformofderivativeanditsproblems
Day 51	Laplacetransformofintegralsanditsproblems
Day 52	Laplacetransformofsomespecialfunction
Day 53	ExampleandExercise questions
Day 54	*Doubtsclass*
Day 55	TEST of Ch-5
Day 56	IntroductiontoInverseLaplacetransformch-6
Day 57	ExampleandExercisequestions
Day 58	Convolutiontheorem
Day 59	Solutionof differentialequationsbytransformmethod
Day 60	ExamplesandExercisequestions
Day 61	Testofch-6
Day 62	ApplicationofLaplacetransformationtointegral equationsch-7
Day 63	ExampleandExercise

Day 64	Solution of simultaneous Equation
Day 65	Doubtclass
Day 66	SolutionofdifferentialequationsbyLaplacetransformationch-8
Day 67	Example
Day 68	Exercise problems
Day 69	Doubt Class of Ch-8.1
Day 70	Doubt Class of Ch-8.2
Day 71	Introduction to fourier transform ch-9
Day 72	Examples and properties of fourier
Day 73	Exercise 9.1
Day 74	Doubt class
Day 75	Introduction to Fourier Inverse transform
Day 76	Examples
Day 77	Exercise
Day 78	Fouriercosine transform
Day 79	Example and Exercisequestions
Day 80	Fouriercosine transform
Day 81	Example
Day 82	Exercise questions
Day 83	Doubt class
Day 84	SUNDAY
Day 85	Revision of Ch-9,10
Day 86	Test of Ch-9&8
Day 87	Revision of Unit –I

Day 88	Revision of Unit –II
Day 89	Revision of UnitII
Day 90	Revision of Unit-IV

Name of the professor:Ms.Garima Mehta **Class And Section:M.Sc(P)** **Subject:Partial Differential Equation**	
Day 1	Partial differential equation
Day 2	It's types
Day 3	Method of separation of variables
Day 4	Boundary value problem
Day 5	One dimensional heat equation
Day 6	Steady state temperature in a rectangular plate
Day 7	Example discussion
Day 8	Exercise questions
Day 9	Doubt class
Day 10	Circular disc
Day 11	Semi infinite plate
Day 12	Heat equation in semi infinite region
Day 13	Heat equation in infinite region
Day 14	Example discussion

Day 15	Solution of three dimensional Laplace equation in cartesian coordinate
Day 16	Spherical coordinate
Day 17	Heat equation in semi infinite region
Day 18	Heat equation in infinite region
Day 19	Example discussion
Day 20	Solution of three dimensional Laplace equation in cartesian coordinate
Day 21	Spherical coordinate
Day 22	Cylindrical coordinate
Day 23	Doubt class
Day 24	Heat equation in cartesian coordinate
Day 25	DR B.R AMBEDKAR JAYANTI
Day 26	Test
Day 27	Estimate for harmonic function
Day 28	Cylindrical Coordinates
Day 29	Spherical Coordinates
Day 30	Doubt class
Day 31	Example discussion
Day 32	Motion of a vibrating string
Day 33	Solution of wave equation for Semi infinite string
Day 34	Solution of wave equation for infinite string
Day 35	Doubt class
Day 36	Test
Day 37	Question discussed
Day 38	Basics of PDE
Day 39	Different types of PDE

Day 40	Initial value problem
Day 41	Transport proboem
Day 42	Harmonic equation
Day 43	Fundamental solution of Laplace equation
Day 44	Mean value formula for Laplace equation
Day 45	Converse of mean value
Day 46	Strong maximum principle
Day 47	Question discuss
Day 48	Poisson equation
Day 49	Some notations
Day 50	Poisson equation
Day 51	Liouville theorem
Day 52	Representation formula
Day 53	Green formula
Day 54	Derivation of Green function
Day 55	Corrector function
Day 56	Some theorem
Day 57	Symmetry of Green function
Day 58	Uniqueness theorem by energy method
Day 59	Dirichlet principle
Day 60	Fundamental solution of bounded function
Day 61	Doubt class
Day 62	Test
Day 63	Question discuss
Day 64	Physical interpretation of heat
Day 65	Fundamental solution of heat equation
Day 66	Integral of fundamental solution of heat equation

Day 67	Cauchy problem
Day 68	Exercise questions
Day 69	Heat ball
Day 70	Mean value formula for heat equation
Day 71	Uniqueness theorem for heat equation
Day 72	Physical interpretation of Wave equation
Day 73	D' Alembert formula
Day 74	Reflection method
Day 75	Test
Day 76	Introduction to non linear PDE
Day 77	Complete integral
Day 78	Envelopes
Day 79	Characteristics
Day 80	Hamilton Jacobi equation
Day 81	Doubt class
Day 82	Test
Day 83	Revision of chapter 1
Day 84	Previous year question
Day 85	Revision of chapter 2
Day 86	Previous year question
Day 87	Revision of chapter 3
Day 88	Previous year question
Day 89	Revision of chapter 4
Day 90	Previous year question