

I.B. (PG) COLLEGE, PANIPAT

LESSON PLAN

SESSION 2022-23 (01.02.2023 to 16.05.2023)

Weekly Lesson Plan Even Semester)

UG (II - Semester)

Name of the Paper: Microbiology

Class: BSc Ist

Name of the Teachers (Section Wise) : Anjushree

WEEK	DATE	TOPICS
1	February (1-4)	
		Introduction and scope of Microbiology Definition and history of microbiology:contribution of Antony leeuwenhock,Louis Pasteur, Robert Koch.
		Definition and history of microbiology:contribution of Antony leeuwenhock,Louis Pasteur, Robert Koch
SUNDAY - 05.02.2023 Holiday (Guru Ravidass Jayanti)		
2	February (6-11)	Types of microscope: Compound, Dark field and phase contrast microscope.
		Types of microscope: Fluorecence and electron microscope Types of microscope: Fluorecence and electron microscope
SUNDAY - 12.02.2023		
3	February (13-17)	Microbial techniques: Sterlization: Principles and applications. Physical methods
		Microbial techniques: Chemical methods; Alcohols, Aldehydes, phenols, Halogens and gaseous agents Microbial techniques: Radiation Methods; UV rays and gamma rays
HOLIDAY - 18.02.2023 (Maha Shivratri)		
SUNDAY - 19.02.2023		
4	February (20-25)	Stains and staining techniques: Principles of staining.
		Types of stains: Simple stains, structural and Differential stains. Microbial taxonomy: Concept and classification..
SUNDAY - 26.02.2023		
5	February (27-28) March (1-4)	General account Bacteria: characteristics of Bacteria Forms of Bacteria
		Gram positive and gram negative Bacteria Cell structure: Ultra structure of bacterial cell including endospore and capsule
SUNDAY - 05.03.2023		
Holi Vacations - 05.03.2023 to 12.03.2023		
7	March (13-18)	Reproduction in Bacteria: Asexual reproduction, endospore formation.
		Assignment General account Viruses : History, structure and classification
SUNDAY - 19.03.2023		

8	March (20-25)	General account Viruses : History, structure and classification
		Structure of Plant virus: :CaMV
SUNDAY - 26.03.2023		
HOLIDAY 23.03.2023 Shaheedi Diwas		
9	March (27-31) April (1)	Structure of Animal virus and Bacterial virus : Hepatitis B, Lamda phage
		Pathogenic Microorganisms : Viral Diseases : AIDS (HIV)
HOLIDAY - 30.03.2023 (Ram Navmi)		
SUNDAY - 02.04.2023		
9	April (3-8)	Microbial growth and metabolism: Basic requirements of a microbial culture medium
		Pattern of microbial growth, equipments for microbial growth
		Types of microbial culture procedures and measurements of microbial growth
HOLIDAY - 04.04.2023 (Mahavir Jayanti)		
SUNDAY - 09.04.2023		
10	April (10-15)	Types of microbial culture procedures and measurements of microbial growth
		Types of microbial culture procedures and measurements of microbial growth
SUNDAY - 16.04.2023		
HOLIDAY - 14.04.2023 (DR.B.R.Ambedkar Jayanti)		
11	April (17-21)	
SUNDAY - 23.04.2023		
Holiday Id-UI-Fitr/Parshuram Jayanti (Saturday)		
12	April (24-29)	Microbial metabolism
		Microbial metabolism
		Photosynthetic apparatus in Prokaryotes
SUNDAY - 30.04.2023		
13	May (1-6)	Origin of photosynthetic apparatus: Autotrophs, Photoautotrophs, oxygenic photophosphorylation
		Origin of photosynthetic apparatus: Autotrophs, Photoautotrophs, oxygenic photophosphorylation
		Anoxygenic photophosphorylation.
SUNDAY - 07.05.2023		
14	May (8-13)	Dark phase (Calvin Cycle)
		Dark phase (Calvin Cycle)
		Test
SUNDAY - 14.05.2023		
14	May (15-16)	Revision
Examination 17.05.2023 Onwards.		

I.B. (PG) COLLEGE, PANIPAT

LESSON PLAN

SESSION 2022-23 (01.02.2023 to 16.05.2023)

Weekly Lesson Plan Even Semester)

UG (II - Semester)

Name of the Paper:- Paper-II (Life and Diversity from Mollusca to Hemichordata & Genetics -II) Class: Bsc-I

Name of the Teachers (Section Wise) : Bhawna Malik

WEEK	DATE	TOPICS
1	February (1-4)	
		Mollusca: General characters
		Mollusca: Classification examples
		Mollusca: Biodiversity and economic importance
SUNDAY - 05.02.2023 Holiday (Guru Ravidass Jayanti)		
2	February (6-11)	
		Mollusca: Pila Introduction Morphology
		Structure of Shell, Body, Mantle. Mantle Pallial complex, locomotion, Integument
SUNDAY - 12.02.2023		
3	February (13-17)	
		Digestive System
		Respiratory System
HOLIDAY - 18.02.2023 (Maha Shivratri)		
SUNDAY - 19.02.2023		
4	February (20-25)	
		Mollusca Blood Vascular System
		Excretory System, Nervous System Mollusca: Respiration and Foot
SUNDAY - 26.02.2023		
5	February (27-28) March (1-4)	
		Mollusca : Sense Organs
		Reproductive System Mollusca: Torsion Detorsion
SUNDAY - 05.03.2023		
Holi Vacations - 05.03.2023 to 12.03.2023		
7	March (13-18)	
		Genetics:Inborn Errors of Metabolism
		Human genetics Human genetics
SUNDAY - 19.03.2023		
8	March (20-25)	
		Gene Mutations Mutations I
		Test

SUNDAY - 26.03.2023		
HOLIDAY 23.03.2023 Shaheedi Diwas		
9	March (27-31) April (1)	
		Echinodermata General characters classification Echinodermata Star fish External Characters
HOLIDAY - 30.03.2023 (Ram Navmi)		
SUNDAY - 02.04.2023		
9	April (3-8)	
		Echinodermata Body Wall, Endoskeleton ,coelom
		Echinodermata Digestive System
		Echinodermata Waer Vascular System
HOLIDAY - 04.04.2023 (Mahavir Jayanti)		
SUNDAY - 09.04.2023		
10	April (10-15)	
		Echinodermata Circulatory System
		Echinodermata Respiratory and Excretory System
SUNDAY - 16.04.2023		
HOLIDAY - 14.04.2023 (DR.B.R.Ambedkar Jayanti)		
11	April (17-21)	
		Echinodermata Nervous system Sense Organs
		Echinodermata Reproductive System And Life history
SUNDAY - 23.04.2023		
Holiday Id-UI-Fitr/Parshuram Jayanti (Saturday)		
12	April (24-29)	
		Echinodermata Larvae
		Conditional Test
		Mutations II Chromosomal Abberations
SUNDAY - 30.04.2023		
13	May (1-6)	
		Mutations III Numerical Chromosomal Abberations
		Nature and Structure of Genetic Material
		Functions of Genetic Material
SUNDAY - 07.05.2023		
14	May (8-13)	
		Hemichordata
		Eugenics euthenics Euphenics
		Revision
SUNDAY - 14.05.2023		
14	May (15-16)	
Examination 17.05.2023 Onwards.		

I.B. (PG) COLLEGE, PANIPAT

LESSON PLAN

SESSION 2022-23 (01.02.2023 to 16.05.2023)

Weekly Lesson Plan Even Semester)

UG (II - Semester)

Name of the Paper:- Paper-II (Biochemistry II)

Class: BSc I Sem 2

Name of the Teachers (Section Wise) : Bhawna Malik

WEEK	DATE	TOPICS
1	February (1-4)	Enzymes: Introduction, active site ,energy of activation, transition state hypothesis.
SUNDAY - 05.02.2023 Holiday (Guru Ravidass Jayanti)		
2	February (6-11)	Enzymes: Introduction, active site ,energy of activation, transition state hypothesis.
		Enzymes: lock and Key hypothesis Induced fit hypothesis, KM, V max, MM equation.
		Enzymes: lock and Key hypothesis Induced fit hypothesis, KM, V max, MM equation.
SUNDAY - 12.02.2023		
3	February (13-17)	Enzymes: lock and Key hypothesis Induced fit hypothesis, KM, V max, MM equation.
		Lineweaver Burk Plot/Double reciprocal plot.
		Enzymes: effect of pH, temperature on enzyme activity introduction.
HOLIDAY - 18.02.2023 (Maha Shivratri)		
SUNDAY - 19.02.2023		
4	February (20-25)	Allosteric enzymes (A brief account)
		Enzymes inhibition: Competitive.
		Enzymes inhibition: non competitive
SUNDAY - 26.02.2023		
5	February (27-28) March (1-4)	Enzymes inhibition: un competitive inhibition
		Vitamins : Introduction Fat soluble vitamins
		Vitamins: Types and structure of water soluble vitamins and their coenzyme derivatives
SUNDAY - 05.03.2023		
Holi Vacations - 05.03.2023 to 12.03.2023		
7	March (13-18)	Vitamins: Deficiency symptoms and dietary sources
		Steroid Hormones: structure and importance
		Steroid Hormones: structure and importance
SUNDAY - 19.03.2023		

8	March (20-25)	Metabolism: General introduction, catabolism and anabolism
		Metabolism: General introduction, catabolism and anabolism
		Metabolism: General introduction, catabolism and anabolism
SUNDAY - 26.03.2023		
HOLIDAY 23.03.2023 Shaheedi Diwas		
9	March (27-31) April (1)	Peptide hormones : structure and importance of important peptide hormones
		Peptide hormones : structure and importance of important peptide hormones
		Carbohydrates metabolism: Glycolysis..
HOLIDAY - 30.03.2023 (Ram Navmi)		
SUNDAY - 02.04.2023		
9	April (3-8)	Carbohydrates metabolism : Tricarboxylic acid cycle Lipid metabolism: β - oxidation of fatty acids
		Assignments
HOLIDAY - 04.04.2023 (Mahavir Jayanti)		
SUNDAY - 09.04.2023		
10	April (10-15)	Carbohydrates metabolism : Tricarboxylic acid cycle contd..
		Lipid Metabolism: β -oxidation of fatty acids.
		Lipid Metabolism: β -oxidation of fatty acids.
SUNDAY - 16.04.2023		
HOLIDAY - 14.04.2023 (DR.B.R.Ambedkar Jayanti)		
11	April (17-21)	Synthesis of Fatty acids.
		Synthesis of Fatty acids.
		Amino acid Metabolism: Transamination
SUNDAY - 23.04.2023		
Holiday Id-UI-Fitr/Parshuram Jayanti (Saturday)		
12	April (24-29)	Urea cycle
		Urea cycle
		Urea cycle
SUNDAY - 30.04.2023		
13	May (1-6)	Different classes of oxidation and synthesis of amino acids.
		Different classes of oxidation and synthesis of amino acids.
		Different classes of oxidation and synthesis of amino acids.
SUNDAY - 07.05.2023		
14	May (8-13)	Glycogenic and ketogenic amino acids
		Glycogenic and ketogenic amino acids
		Glycogenic and ketogenic amino acids
SUNDAY - 14.05.2023		
14	May (15-16)	Revision
		Class test
Examination 17.05.2023 Onwards.		

I.B. (PG) COLLEGE, PANIPAT

LESSON PLAN

SESSION 2022-23 (01.02.2023 to 16.05.2023)

Weekly Lesson Plan Even Semester)

UG (II - Semester)

Name of the Paper:- Logical Organization of Computers Class: B.Sc. (cs)

Name of the Teachers (Section Wise) : Deepty Juneja

WEEK	DATE	TOPICS
1	February (1-4)	Information Representation: Number Systems
SUNDAY - 05.02.2023 Holiday (Guru Ravidass Jayanti)		
2	February (6-11)	Information Representation: Number Systems
		Binary Arithmetic
		Fixed-point and Floating point representation of numbers
SUNDAY - 12.02.2023		
3	February (13-17)	BCD Codes, Error detecting and correcting codes
		Error detecting and correcting codes
		Character Representation – ASCII, EBCDIC
HOLIDAY - 18.02.2023 (Maha Shivratri)		
SUNDAY - 19.02.2023		
4	February (20-25)	Binary Logic: Boolean Algebra,
		Boolean Algebra,
		Boolean Theorems
SUNDAY - 26.02.2023		
5	February (27-28) March (1-4)	Boolean Theorems
		Boolean Functions and Truth Tables,
		Canonical and Standard forms of Boolean functions
SUNDAY - 05.03.2023		
Holi Vacations - 05.03.2023 to 12.03.2023		
7	March (13-18)	Canonical and Standard forms of Boolean functions
		Venn Diagram,
		Karnaugh Maps.
SUNDAY - 19.03.2023		

8	March (20-25)	Karnaugh Maps.
		Karnaugh Maps.
		Assignment I
SUNDAY - 26.03.2023		
HOLIDAY 23.03.2023 Shaheedi Diwas		
9	March (27-31) April (1)	Digital Logic: Basic Gates – AND, OR, NOT
		Universal Gates – NAND, NOR
		XOR, XNOR
HOLIDAY - 30.03.2023 (Ram Navmi)		
SUNDAY - 02.04.2023		
9	April (3-8)	Combinational Circuits: Half-Adder, Full-Adder
		Half-Subtractor, Full-Subtractor,
HOLIDAY - 04.04.2023 (Mahavir Jayanti)		
SUNDAY - 09.04.2023		
10	April (10-15)	Multiplexers, Demultiplexers
		Comparators, Code Converters.
		Encoders, Decoders
SUNDAY - 16.04.2023		
HOLIDAY - 14.04.2023 (DR.B.R.Ambedkar Jayanti)		
11	April (17-21)	Conditional Test
		Sequential Logic: Characteristics, Flip-Flops,
		Clocked RS, D type
SUNDAY - 23.04.2023		
Holiday Id-Ul-Fitr/Parshuram Jayanti (Saturday)		
12	April (24-29)	JK, T type
		Master-Slave flip-flops. State table
		state diagram. Flip-flop excitation tables
SUNDAY - 30.04.2023		
13	May (1-6)	Assignment II
		Shift registers : serial in parallel out and parallel in parallel out..
		Designing counters –Asynchronous and Synchronous
SUNDAY - 07.05.2023		
14	May (8-13)	Binary Counters, Modulo-N Counters
		Modulo-N Counters
		Modulo-N Counters
SUNDAY - 14.05.2023		
14	May (15-16)	Up-Down Counters
Examination 17.05.2023 Onwards.		

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LESSON PLAN

SESSION 2022-23 (01.02.2023 to 16.05.2023)

Weekly Lesson Plan Even Semester)

UG (II - Semester)

Name of the Paper:-Object Oriented Programming with C++ Class: BSc.II (CSC)

Name of the Teachers (Section Wise) : Prof.Vinay Bharti

WEEK	DATE	TOPICS
1	February (1-4)	
SUNDAY - 05.02.2023 Holiday (Guru Ravidass Jayanti)		
2	February (6-11)	Object-Oriented programming features and benefits.
		Object-Oriented features of C++
SUNDAY - 12.02.2023		
3	February (13-17)	Class and Objects, Data Hiding & Encapsulation,
		Structures, Data members and Member functions
		Scope resolution operator and its significanc
		Static Data Members, Static member functions
HOLIDAY - 18.02.2023 (Maha Shivratri)		
SUNDAY - 19.02.2023		
4	February (20-25)	
		Nested and Local Class, Accessing Members of Class and Structure.
SUNDAY - 26.02.2023		
5	February (27-28) March (1-4)	Revision of first unit
		Constructor, Initialization using constructor, types of constructor- Default, Parameterized & Copy
		Constructors, Constructor overloading
SUNDAY - 05.03.2023		
Holi Vacations - 05.03.2023 to 12.03.2023		
7	March (13-18)	Default Values to Parameters, Destructors,
		Revision
SUNDAY - 19.03.2023		

8	March (20-25)	I/O: Hierarchy of Console Stream Classes, Unformatted and Formatted I/O Operations
SUNDAY - 26.03.2023		
HOLIDAY 23.03.2023 Shaheedi Diwas		
9	March (27-31) April (1)	Conditional Test
		Manipulators, Friend Function, Friend Class, Arrays, Array of Objects, Passing and Returning Objects to Functions
HOLIDAY - 30.03.2023 (Ram Navmi)		
SUNDAY - 02.04.2023		
9	April (3-8)	Assignment I
		String Handling in C++
		Revision
HOLIDAY - 04.04.2023 (Mahavir Jayanti)		
SUNDAY - 09.04.2023		
10	April (10-15)	Dynamic Memory Management: Pointers, new, and delete Operator, Array of Pointers to Objects, this Pointer
SUNDAY - 16.04.2023		
HOLIDAY - 14.04.2023 (DR.B.R.Ambedkar Jayanti)		
11	April (17-21)	Passing Parameters to Functions by Reference & pointers.
SUNDAY - 23.04.2023		
Holiday Id-UI-Fitr/Parshuram Jayanti (Saturday)		
12	April (24-29)	Assignment II
		Static Polymorphism: Operators in C++ Precedence and Associativity Rules
SUNDAY - 30.04.2023		
13	May (1-6)	Operator Overloading, Unary & Binary
		Operators Overloading, Function Overloading
SUNDAY - 07.05.2023		
14	May (8-13)	Inline Functions, Merits/Demerits of Static Polymorphism.
SUNDAY - 14.05.2023		
14	May (15-16)	Revision
Examination 17.05.2023 Onwards.		

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LESSON PLAN

SESSION 2022-23 (01.02.2023 to 16.05.2023)

Weekly Lesson Plan Even Semester)

UG (II - Semester)

Name of the Paper:- Programming in C

Class: B.Sc.(cs)

Name of the Teachers (Section Wise) : Deepty Juneja

WEEK	DATE	TOPICS	
1	February (1-4)	Overview of C: History & Importance of C, Structure of a C Program. Elements of C: C character set, identifiers and keywords	
		SUNDAY - 05.02.2023 Holiday (Guru Ravidass Jayanti)	
		2	February (6-11)
SUNDAY - 12.02.2023			
3	February (13-17)		
		HOLIDAY - 18.02.2023 (Maha Shivratri)	
		SUNDAY - 19.02.2023	
4	February (20-25)	output functions (printf(), putchar(), puts()). Arithmetic, relational, logical operator bitwise, unary operator	
		SUNDAY - 26.02.2023	
		5	February (27-28) March (1-4)
SUNDAY - 05.03.2023			
Holi Vacations - 05.03.2023 to 12.03.2023			
7	March (13-18)	Decision making & branching: Decision making with IF statement, IF-ELSE statement, Nested IF statement, ELSE-IF ladder switch statement, goto statement	
		SUNDAY - 19.03.2023	
		8	March (20-25)
SUNDAY - 26.03.2023			
HOLIDAY 23.03.2023 Shaheedi Diwas			
9	March (27-31) April (1)	Assignment I Functions: Definition, prototype	
		HOLIDAY - 30.03.2023 (Ram Navmi)	
		SUNDAY - 02.04.2023	

9	April (3-8)	
		passing parameters, recursion
		Storage classes in C: auto, extern, register Storage classes in C: auto, extern, register
HOLIDAY - 04.04.2023 (Mahavir Jayanti)		
SUNDAY - 09.04.2023		
10	April (10-15)	
		Static storage class, their scope, storage, & lifetime Conditional Test
SUNDAY - 16.04.2023		
HOLIDAY - 14.04.2023 (DR.B.R.Ambedkar Jayanti)		
11	April (17-21)	
		Arrays: Definition, types initialization, processing an array
SUNDAY - 23.04.2023		
Holiday Id-UI-Fitr/Parshuram Jayanti (Saturday)		
12	April (24-29)	
		Implementation of Array Implementation of Array Assignment II
SUNDAY - 30.04.2023		
13	May (1-6)	
		Structure Structure Union
SUNDAY - 07.05.2023		
14	May (8-13)	
		Union Revision Revision
SUNDAY - 14.05.2023		
14	May (15-16)	
Examination 17.05.2023 Onwards.		

I.B. (PG) COLLEGE, PANIPAT

LESSON PLAN

SESSION 2022-23 (01.02.2023 to 16.05.2023)

Weekly Lesson Plan Even Semester)

UG (II -Semester)

Name of the Paper:- English

Class:Bsc 2nd sem

Name of the Teachers (Section Wise) : Srishti Sharma

WEEK	DATE	TOPICS
1	February (1-4)	Introduction of "Our Civilization"
		About Author
		"Our Civilization" Text
		"Our Civilization" Text
SUNDAY - 05.02.2023 Holiday (Guru Ravidass Jayanti)		
2	February (6-11)	"Our Civilization "Text
		Revision
		Question/Answer discussion
		Question/Answer discussion
		Revision
		Test
SUNDAY - 12.02.2023		
3	February (13-17)	Translation practice
		Translation practice
		Translation Practice
		Introduction of " It's Question Time"
		About Author
HOLIDAY - 18.02.2023 (Maha Shivratri)		
SUNDAY - 19.02.2023		
4	February (20-25)	"It's Question Time" Text
		"It's Question Time"Text
		"It's Question Time"Text
		Revision
		Question/Answer discussion
		Question/Answer discussion
SUNDAY - 26.02.2023		
5	February (27-28) March (1-4)	Test
		Precis writing
		Precis writing
		"An Interview with Christiaan Barnard"
		"An Interview with Christiaan Barnard"
SUNDAY - 05.03.2023		
Holi Vacations - 05.03.2023 to 12.03.2023		
7	March (13-18)	Revision
		Question/Answer discussion
		Question/Answer discussion
		Test
		Assignment 1
		Assignment 1
SUNDAY - 19.03.2023		
8	March (20-25)	"Untouchability and Caste System"
		"Untouchability and Caste System"
		"Untouchability and Caste System"
		Revision
		Test
SUNDAY - 26.03.2023		
HOLIDAY 23.03.2023 Shaheedi Diwas		
9	March (27-31) April (1)	Letter writing
		Letter writing
		Letter Writing
		Assignment 2
		Assignment 2
HOLIDAY - 30.03.2023 (Ram Navmi)		
SUNDAY - 02.04.2023		

9	April (3-8)	Introduction of "Inhumanisation of war"
		"Inhumanisation of war"
		"Inhumanisation of war"
		Revision
HOLIDAY - 04.04.2023 (Mahavir Jayanti)		
SUNDAY - 09.04.2023		
10	April (10-15)	Conditional Test
		Translation practice
		Translation Practice
		Introduction of " Seven types of Gender Inequality "
" Seven Types of Gender Inequality "		
SUNDAY - 16.04.2023		
HOLIDAY - 14.04.2023 (DR.B.R.Ambedkar Jayanti)		
11	April (17-21)	"Seven Types of Gender Inequality "
		"Seven Types of Gender Inequality "
		"Seven Types of Gender Inequality "
		Question/Answer discussion
Question/Answer discussion		
SUNDAY - 23.04.2023		
Holiday Id-Ui-Fitr/Parshuram Jayanti (Saturday)		
12	April (24-29)	Revision
		Test
		Letter writing
		Letter Writing
		Test of letter writing
Revision		
SUNDAY - 30.04.2023		
13	May (1-6)	Precis practice
		Precis practice
		Precis practice
		Test
		Revision ch-1
Translation		
SUNDAY - 07.05.2023		
14	May (8-13)	Revision ch 2
		Revision ch 3
		Revision ch 4
		Revision Ch 5
		Revision Ch 6
Important question discussion		
SUNDAY - 14.05.2023		
14	May (15-16)	Important question discussion
		Test of full Syllabus
Examination 17.05.2023 Onwards.		

I.B. (PG) COLLEGE, PANIPAT

LESSON PLAN

SESSION 2022-23 (01.02.2023 to 16.05.2023)

Weekly Lesson Plan Even Semester)

UG (II - Semester)

Name of the Paper:- Number Theory And Trignometry Class: B.Sc.-I

Name of the Teachers (Section Wise) : Dr. Arpana Garg

WEEK	DATE	TOPICS
1	February (1-4)	De Moivre's Theorem
		Its Examples and Problems
		Discussion
		Roots of a Complex Number
SUNDAY - 05.02.2023 Holiday (Guru Ravidass Jayanti)		
2	February (6-11)	Theorems Based on Roots of a complex Number
		Its Examples and Problems
		Solution Of Equations
		Problems
		Expansion of Trigonometric Functions
SUNDAY - 12.02.2023		
3	February (13-17)	Its Examples and Problems
		Expansion of Powers of Trigonometric Functions
		Expansion of Powers of Trigonometric Functions
		Problems and Test of the Chapter
		Exponential Function of complex Variable
HOLIDAY - 18.02.2023 (Maha Shivratri)		
SUNDAY - 19.02.2023		
4	February (20-25)	Problems and discussion
		Circular Function of a complex variable
		Hyperbolic function
		Problems
		Seperation of Functions into real and imaginary part
SUNDAY - 26.02.2023		
5	February (27-28) March (1-4)	Exponential Function
		Problems
		Inverse Trigonometry Function
		examples
		revision
SUNDAY - 05.03.2023		
Holi Vacations - 05.03.2023 to 12.03.2023		
7	March (13-18)	Problems
		Gregory's Series
		problems
		examples
		Summation of series
SUNDAY - 19.03.2023		
Method of Difference		

8	March (20-25)	example
		C+iS method of Summation
		Types of C+iS Method Problems
		Problem Discussion
		Test
SUNDAY - 26.03.2023		
HOLIDAY 23.03.2023 Shaheedi Diwas		
9	March (27-31) April (1)	Divisibility
		Principle of Mathematical Induction
		Examples
		Problems
		Division Algorithm
HOLIDAY - 30.03.2023 (Ram Navmi)		
SUNDAY - 02.04.2023		
9	April (3-8)	Examples
		Fundamental Theorem of Arithmetic
		Examples
		Congruences
		Linear Congruence
HOLIDAY - 04.04.2023 (Mahavir Jayanti)		
SUNDAY - 09.04.2023		
10	April (10-15)	Diophantine Equation
		Examples
		Problems
		Problems
		Fermat Theorem
SUNDAY - 16.04.2023		
HOLIDAY - 14.04.2023 (DR.B.R.Ambedkar Jayanti)		
11	April (17-21)	Examples
		Wilson's Theorem
		Examples
		Problems
		Eulers Function
SUNDAY - 23.04.2023		
Holiday Id-UI-Fitr/Parshuram Jayanti (Saturday)		
12	April (24-29)	Examples
		Problems
		Residue System
		Chinese Remainder Theorem
		Examples
		Quadratic Residue
SUNDAY - 30.04.2023		
13	May (1-6)	Theorems Based on Roots of a complex Number
		Examples
		Quadratic Reciprocity Law
		Examples
		Problems
		Some Functions of Number Theory
SUNDAY - 07.05.2023		
14	May (8-13)	Greatest Integer Function
		Examples
		Arithmetic Functions
		Mobius Function
		Mobius Function
		Examples
SUNDAY - 14.05.2023		
14	May (15-16)	Test
		Revision
Examination 17.05.2023 Onwards.		

I.B. (PG) COLLEGE, PANIPAT

LESSON PLAN

SESSION 2022-23 (01.02.2023 to 16.05.2023)

Weekly Lesson Plan Even Semester)

UG (II - Semester)

Name of the Paper:- Physical Chemistry

Class: B.Sc -I

Name of the Teachers (Section Wise) : DR. VIKRAM KUMAR

WEEK	DATE	TOPICS
1	February (1-4)	Kinetics Rate of reaction, rate equation and its types, factors influencing the rate of a reaction – concentration, temperature
SUNDAY - 05.02.2023 Holiday (Guru Ravidass Jayanti)		
2	February (6-11)	factors influencing the rate of a reaction – , pressure, solvent, light, catalyst
SUNDAY - 12.02.2023		
3	February (13-17)	Order of a reaction, integrated rate expression for zero order, first order,
HOLIDAY - 18.02.2023 (Maha Shivratri)		
SUNDAY - 19.02.2023		
4	February (20-25)	second and third order reactions. Half life period of a reaction.
SUNDAY - 26.02.2023		
5	February (27-28) March (1-4)	Effect of temperature on the rate of reaction – Arrhenius equation.
SUNDAY - 05.03.2023		
Holi Vacations - 05.03.2023 to 12.03.2023		
7	March (13-18)	Theories of reaction rate – Simple collision theory for unimolecular collision. Transition state theory of bimolecular reactions.
SUNDAY - 19.03.2023		

8	March (20-25)	Electrochemistry Electrolytic conduction, factors affecting electrolytic conduction, specific conductance, molar conductance, equivalent conductance and relation among them,
SUNDAY - 26.03.2023		
HOLIDAY 23.03.2023 Shaheedi Diwas		
9	March (27-31) April (1)	variation with concentration. Arrhenius theory of ionization, Ostwald's Dilution Law.
HOLIDAY - 30.03.2023 (Ram Navmi)		
SUNDAY - 02.04.2023		
9	April (3-8)	Debye Huckel – Onsager's equation for strong electrolytes (elementary treatment only),
HOLIDAY - 04.04.2023 (Mahavir Jayanti)		
SUNDAY - 09.04.2023		
10	April (10-15)	Application of Kohlrausch's Law in calculation of conductance of weak electrolytes at infinite dilution.
SUNDAY - 16.04.2023		
HOLIDAY - 14.04.2023 (DR.B.R.Ambedkar Jayanti)		
11	April (17-21)	Applications of conductivity measurements: determination of degree of dissociation,
SUNDAY - 23.04.2023		
Holiday Id-Ul-Fitr/Parshuram Jayanti (Saturday)		
12	April (24-29)	determination of K_a of acids determination of solubility product of sparingly soluble salts,
SUNDAY - 30.04.2023		
13	May (1-6)	conductometric titrations. Concepts of pH and pK_a
SUNDAY - 07.05.2023		
14	May (8-13)	Buffer solution, Buffer action, Henderson – Hazel equation, Buffer mechanism of buffer action
SUNDAY - 14.05.2023		
14	May (15-16)	
Examination 17.05.2023 Onwards.		

I.B. (PG) COLLEGE, PANIPAT

LESSON PLAN

SESSION 2022-23 (01.02.2023 to 16.05.2023)

Weekly Lesson Plan Even Semester)

UG (II - Semester)

Name of the Paper:- Inorganic Chemistry

Class: B.Sc -I

Name of the Teachers (Section Wise) : PROF. ERA GARG

WEEK	DATE	TOPICS
1	February (1-4)	Hydrogen Bonding and Van der Waals forces Hydrogen Bonding – Definition, types, effects of hydrogen bonding on properties of substances, application
SUNDAY - 05.02.2023 Holiday (Guru Ravidass Jayanti)		
2	February (6-11)	Metallic Bond and semiconductors Metallic bond – Qualitative idea of valence bond and Band theories of metallic bond (conductors, semiconductors, insulators).
SUNDAY - 12.02.2023		
3	February (13-17)	Semiconductors – Introduction, types and applications. s-Block elements Comparative study of the elements including diagonal relationship,
HOLIDAY - 18.02.2023 (Maha Shivratri)		
SUNDAY - 19.02.2023		
4	February (20-25)	Anomalous behaviour of Lithium and Beryllium compared to other elements in the same group, salient features of hydrides, oxides, halides, hydroxides (methods of preparation excluded),
SUNDAY - 26.02.2023		
5	February (27-28) March (1-4)	behaviour of solution in liquid NH ₃ . Chemistry of Noble Gases General physical properties, low chemical reactivity, chemistry of xenon,
SUNDAY - 05.03.2023		
Holi Vacations - 05.03.2023 to 12.03.2023		
7	March (13-18)	structure and bonding in fluorides, oxides and oxyfluorides of xenon.
SUNDAY - 19.03.2023		

8	March (20-25)	p-Block elements: Electronic configuration, atomic and ionic size, metallic character, melting point, ionization energy, electron affinity, electronegativity, inert pair effect and diagonal
SUNDAY - 26.03.2023		
HOLIDAY 23.03.2023 Shaheedi Diwas		
9	March (27-31) April (1)	Boron family (13th group): Diborane: Preparation, properties and structure (as an example of electron deficient compound and multicenter bonding)
HOLIDAY - 30.03.2023 (Ram Navmi)		
SUNDAY - 02.04.2023		
9	April (3-8)	Borazine chemical properties and structure, relative strength of Trihalide of Boron as lewis acids, structure of aluminium(III) chloride.
HOLIDAY - 04.04.2023 (Mahavir Jayanti)		
SUNDAY - 09.04.2023		
10	April (10-15)	Carbon family and Nitrogen family (14th and 15th group): Catenation, Carbides, fluoro carbons, silicates (structural aspects).
SUNDAY - 16.04.2023		
HOLIDAY - 14.04.2023 (DR.B.R.Ambedkar Jayanti)		
11	April (17-21)	Oxides: Structure of oxides of nitrogen and phosphorus,
SUNDAY - 23.04.2023		
Holiday Id-Ul-Fitr/Parshuram Jayanti (Saturday)		
12	April (24-29)	Oxyacids : Structure and relative acid strength of oxy acids of nitrogen and phosphorus, structure of white and Red phosphorus.
SUNDAY - 30.04.2023		
13	May (1-6)	Oxygen family (16th group): Oxy acids of sulphur – structure and acidic strength, Hydrogen Peroxide – properties and uses.
SUNDAY - 07.05.2023		
14	May (8-13)	Halogen family (17th group): Interhalogen compounds (their properties and structures), Hydra and oxy acids of chlorine – structure and comparison of acid strength, cationic nature of Iodine
SUNDAY - 14.05.2023		
14	May (15-16)	Revision, Class Test
Examination 17.05.2023 Onwards.		

I.B. (PG) COLLEGE, PANIPAT

LESSON PLAN

SESSION 2022-23 (01.02.2023 to 16.05.2023)

Weekly Lesson Plan Even Semester)

UG (II - Semester)

Name of the Paper:- DIVERSITY OF ARCHEGONIATES Class: B.Sc -I (MEDICAL)

Name of the Teachers (Section Wise) : RAJNI

WEEK	DATE	TOPICS
1	February (1-4)	Bryophyta- Introduction
SUNDAY - 05.02.2023 Holiday (Guru Ravidass Jayanti)		
2	February (6-11)	Discussion on General characters of Bryophyta
		Discussion on General characters of Bryophyta
		Bryophyta- Classification (upto classes)
SUNDAY - 12.02.2023		
3	February (13-17)	Bryophyta- Alternation of generations.
		<i>Marchantia</i> - structure and reproduction
		<i>Marchantia</i> - structure and reproduction
HOLIDAY - 18.02.2023 (Maha Shivratri)		
SUNDAY - 19.02.2023		
4	February (20-25)	<i>Marchantia</i> - structure and reproduction
		<i>Marchantia</i> - structure and reproduction
		<i>Anthoceros</i> - structure and reproduction
SUNDAY - 26.02.2023		
5	February (27-28) March (1-4)	<i>Anthoceros</i> - structure and reproduction
		<i>Anthoceros</i> - structure and reproduction
		<i>Anthoceros</i> - structure and reproduction
SUNDAY - 05.03.2023		
Holi Vacations - 05.03.2023 to 12.03.2023		
7	March (13-18)	<i>Funaria</i> -structure and reproduction
		<i>Funaria</i> -structure and reproduction
		<i>Funaria</i> -structure and reproduction
SUNDAY - 19.03.2023		

8	March (20-25)	<i>Funaria</i> - structure and reproduction
		Pteridophyta- General characters.
		Pteridophyta- General characters.
SUNDAY - 26.03.2023		
HOLIDAY 23.03.2023 Shaheedi Diwas		
9	March (27-31) April (1)	Pteridophyta- General characters.
		Pteridophyta- classification (upto classes)
HOLIDAY - 30.03.2023 (Ram Navmi)		
SUNDAY - 02.04.2023		
9	April (3-8)	<i>Rhynia</i> - alternation of generations, structure and reproduction.
		<i>Rhynia</i> - alternation of generations, structure and reproduction.
HOLIDAY - 04.04.2023 (Mahavir Jayanti)		
SUNDAY - 09.04.2023		
10	April (10-15)	Conditional Test
		<i>Selaginella</i> - structure and reproduction, alternation of generations
		<i>Selaginella</i> - structure and reproduction, alternation of generations
SUNDAY - 16.04.2023		
HOLIDAY - 14.04.2023 (DR.B.R.Ambedkar Jayanti)		
11	April (17-21)	<i>Selaginella</i> - structure and reproduction, alternation of generations
		<i>Equisetum</i> - structure and reproduction, alternation of generations
		<i>Equisetum</i> - structure and reproduction, alternation of generations
SUNDAY - 23.04.2023		
Holiday Id-UI-Fitr/Parshuram Jayanti (Saturday)		
12	April (24-29)	<i>Pteris</i> -structure and reproduction, alternation of generations
		<i>Pteris</i> -structure and reproduction, alternation of generations
		<i>Pteris</i> -structure and reproduction, alternation of generations
SUNDAY - 30.04.2023		
13	May (1-6)	Stelar System
		Stelar System
		Stelar System
SUNDAY - 07.05.2023		
14	May (8-13)	Assignment
		Revision
		Revision
SUNDAY - 14.05.2023		
14	May (15-16)	Revision
		Revision
Examination 17.05.2023 Onwards.		

I.B. (PG) COLLEGE, PANIPAT

LESSON PLAN

SESSION 2022-23 (01.02.2023 to 16.05.2023)

Weekly Lesson Plan Even Semester)

UG (II - Semester)

Name of the Paper:- Physical Chemistry

Class: B.Sc-1 (MEDICAL)

Name of the Teachers (Section Wise) : DR. VIKRAM KUMAR

WEEK	DATE	TOPICS
1	February (1-4)	Kinetics Rate of reaction, rate equation and its types, factors influencing the rate of a reaction – concentration, temperature
SUNDAY - 05.02.2023 Holiday (Guru Ravidass Jayanti)		
2	February (6-11)	factors influencing the rate of a reaction – , pressure, solvent, light, catalyst
SUNDAY - 12.02.2023		
3	February (13-17)	Order of a reaction, integrated rate expression for zero order, first order,
HOLIDAY - 18.02.2023 (Maha Shivratri)		
SUNDAY - 19.02.2023		
4	February (20-25)	second and third order reactions. Half life period of a reaction.
SUNDAY - 26.02.2023		
5	February (27-28) March (1-4)	Effect of temperature on the rate of reaction – Arrhenius equation.
SUNDAY - 05.03.2023		
Holi Vacations - 05.03.2023 to 12.03.2023		
7	March (13-18)	Theories of reaction rate – Simple collision theory for unimolecular collision. Transition state theory of bimolecular reactions.
SUNDAY - 19.03.2023		
8	March (20-25)	Electrochemistry Electrolytic conduction, factors affecting electrolytic conduction, specific conductance, molar conductance, equivalent conductance and relation among them,
SUNDAY - 26.03.2023		
HOLIDAY 23.03.2023 Shaheedi Diwas		

9	March (27-31) April (1)	variation with concentration. Arrhenius theory of ionization, Ostwald's Dilution Law.
HOLIDAY - 30.03.2023 (Ram Navmi)		
SUNDAY - 02.04.2023		
9	April (3-8)	Debye Huckel – Onsager's equation for strong electrolytes (elementary treatment only),
HOLIDAY - 04.04.2023 (Mahavir Jayanti)		
SUNDAY - 09.04.2023		
10	April (10-15)	Application of Kohlrausch's Law in calculation of conductance of weak electrolytes at infinite dilution.
SUNDAY - 16.04.2023		
HOLIDAY - 14.04.2023 (DR.B.R.Ambedkar Jayanti)		
11	April (17-21)	Applications of conductivity measurements: determination of degree of dissociation,
SUNDAY - 23.04.2023		
Holiday Id-UI-Fitr/Parshuram Jayanti (Saturday)		
12	April (24-29)	determination of K_a of acids determination of solubility product of sparingly soluble salts,
SUNDAY - 30.04.2023		
13	May (1-6)	conductometric titrations. Concepts of pH and pK_a
SUNDAY - 07.05.2023		
14	May (8-13)	Buffer solution, Buffer action, Henderson – Hazel equation, Buffer mechanism of buffer action
SUNDAY - 14.05.2023		
14	May (15-16)	
Examination 17.05.2023 Onwards.		

I.B. (PG) COLLEGE, PANIPAT

LESSON PLAN

SESSION 2022-23 (01.02.2023 to 16.05.2023)

Weekly Lesson Plan Even Semester)

UG (II - Semester)

Name of the Paper:- Inorganic Chemistry

Class: B.Sc -I (MEDICAL)

Name of the Teachers (Section Wise) : PROF. ERA GARG

WEEK	DATE	TOPICS
1	February (1-4)	Hydrogen Bonding and Van der Waals forces Hydrogen Bonding – Definition, types, effects of hydrogen bonding on properties of substances, application
SUNDAY - 05.02.2023 Holiday (Guru Ravidass Jayanti)		
2	February (6-11)	Metallic Bond and semiconductors Metallic bond – Qualitative idea of valence bond and Band theories of metallic bond (conductors, semiconductors, insulators).
SUNDAY - 12.02.2023		
3	February (13-17)	Semiconductors – Introduction, types and applications. s-Block elements Comparative study of the elements including diagonal relationship,
HOLIDAY - 18.02.2023 (Maha Shivratri)		
SUNDAY - 19.02.2023		
4	February (20-25)	Anomalous behaviour of Lithium and Beryllium compared to other elements in the same group, salient features of hydrides, oxides, halides, hydroxides (methods of preparation excluded),
SUNDAY - 26.02.2023		
5	February (27-28) March (1-4)	behaviour of solution in liquid NH ₃ . Chemistry of Noble Gases General physical properties, low chemical reactivity, chemistry of xenon,
SUNDAY - 05.03.2023		
Holi Vacations - 05.03.2023 to 12.03.2023		
7	March (13-18)	structure and bonding in fluorides, oxides and oxyfluorides of xenon.
SUNDAY - 19.03.2023		
8	March (20-25)	p-Block elements: Electronic configuration, atomic and ionic size, metallic character, melting point, ionization energy, electron affinity, electronegativity, inert pair effect and diagonal relationship
SUNDAY - 26.03.2023		
HOLIDAY 23.03.2023 Shaheedi Diwas		

9	March (27-31) April (1)	Boron family (13th group): Diborane: Preparation, properties and structure (as an example of electron deficient compound and multicenter bonding)
HOLIDAY - 30.03.2023 (Ram Navmi)		
SUNDAY - 02.04.2023		
9	April (3-8)	Borazine chemical properties and structure, relative strength of Trihalide of Boron as lewis acids, structure of aluminium(III) chloride.
HOLIDAY - 04.04.2023 (Mahavir Jayanti)		
SUNDAY - 09.04.2023		
10	April (10-15)	Carbon family and Nitrogen family (14th and 15th group): Catenation, Carbides, fluoro carbons, silicates (structural aspects).
SUNDAY - 16.04.2023		
HOLIDAY - 14.04.2023 (DR.B.R.Ambedkar Jayanti)		
11	April (17-21)	Oxides: Structure of oxides of nitrogen and phosphorus,
SUNDAY - 23.04.2023		
Holiday Id-UI-Fitr/Parshuram Jayanti (Saturday)		
12	April (24-29)	Oxyacids : Structure and relative acid strength of oxy acids of nitrogen and phosphorus, structure of white and Red phosphorus.
SUNDAY - 30.04.2023		
13	May (1-6)	Oxygen family (16th group): Oxy acids of sulphur – structure and acidic strength, Hydrogen Peroxide – properties and uses.
SUNDAY - 07.05.2023		
14	May (8-13)	Halogen family (17th group): Interhalogen compounds (their properties and structures), Hydra and oxy acids of chlorine – structure and comparison of acid strength, cationic nature of Iodine
SUNDAY - 14.05.2023		
14	May (15-16)	Revision,Class Test
Examination 17.05.2023 Onwards.		

I.B. (PG) COLLEGE, PANIPAT

LESSON PLAN

SESSION 2022-23 (01.02.2023 to 16.05.2023)

Weekly Lesson Plan Even Semester)

UG (II -Semester)

Name of the Paper:- English

Class:Bsc-I (MEDICAL)

Name of the Teachers (Section Wise) : Srishti Sharma

WEEK	DATE	TOPICS
1	February (1-4)	Introduction of "Our Civilization"
		About Author
		"Our Civilization" Text
		"Our Civilization" Text
SUNDAY - 05.02.2023 Holiday (Guru Ravidass Jayanti)		
2	February (6-11)	"Our Civilization "Text
		Revision
		Question/Answer discussion
		Question/Answer discussion
		Revision
SUNDAY - 12.02.2023		
3	February (13-17)	Translation practice
		Translation practice
		Translation Practice
		Introduction of " It's Question Time"
		About Author
HOLIDAY - 18.02.2023 (Maha Shivratri)		
SUNDAY - 19.02.2023		
4	February (20-25)	"It's Question Time" Text
		"It's Question Time"Text
		"It's Question Time"Text
		Revision
		Question/Answer discussion
		Question/Answer discussion
SUNDAY - 26.02.2023		
5	February (27-28) March (1-4)	Test
		Precis writing
		Precis writing
		"An Interview with Christiaan Barnard"
		"An Interview with Christiaan Barnard"
SUNDAY - 05.03.2023		
Holi Vacations - 05.03.2023 to 12.03.2023		
7	March (13-18)	Revision
		Question/Answer discussion
		Question/Answer discussion
		Test
		Assignment 1
		Assignment 1
SUNDAY - 19.03.2023		
8	March (20-25)	"Untouchability and Caste System"
		"Untouchability and Caste System"
		"Untouchability and Caste System"
		Revision
		Test
SUNDAY - 26.03.2023		
HOLIDAY 23.03.2023 Shaheedi Diwas		

9	March (27-31) April (1)	Letter writing
		Letter writing
		Letter Writing
		Assignment 2
		Assignment 2
HOLIDAY - 30.03.2023 (Ram Navmi)		
SUNDAY - 02.04.2023		
9	April (3-8)	Introduction of "Inhumanisation of war"
		"Inhumanisation of war"
		"Inhumanisation of war"
		"Inhumanisation of war"
		Revision
HOLIDAY - 04.04.2023 (Mahavir Jayanti)		
SUNDAY - 09.04.2023		
10	April (10-15)	Conditional Test
		Translation practice
		Translation Practice
		Introduction of " Seven types of Gender Inequality "
		" Seven Types of Gender Inequality "
SUNDAY - 16.04.2023		
HOLIDAY - 14.04.2023 (DR.B.R.Ambedkar Jayanti)		
11	April (17-21)	"Seven Types of Gender Inequality "
		"Seven Types of Gender Inequality "
		"Seven Types of Gender Inequality "
		Question/Answer discussion
		Question/Answer discussion
SUNDAY - 23.04.2023		
Holiday Id-UI-Fitr/Parshuram Jayanti (Saturday)		
12	April (24-29)	Revision
		Test
		Letter writing
		Letter Writing
		Test of letter writing
		Revision
SUNDAY - 30.04.2023		
13	May (1-6)	Precis practice
		Precis practice
		Precis practice
		Test
		Revision ch-1
		Translation
SUNDAY - 07.05.2023		
14	May (8-13)	Revision ch 2
		Revision ch 3
		Revision ch 4
		Revision Ch 5
		Revision Ch 6
		Important question discussion
SUNDAY - 14.05.2023		
14	May (15-16)	Important question discussion
		Test of full Syllabus
Examination 17.05.2023 Onwards.		

I.B. (PG) COLLEGE, PANIPAT

LESSON PLAN

SESSION 2022-23 (01.02.2023 to 16.05.2023)

Weekly Lesson Plan Even Semester)

UG (II - Semester)

Name of the Paper:- Life and Diversity from Annelida to Arthropoda and Genetics- I Class: Ist Year (M)

Name of the Teachers (Section Wise) : Pawan Kumar

WEEK	DATE	TOPICS
1	February (1-4)	General characters of annelida
SUNDAY - 05.02.2023 Holiday (Guru Ravidass Jayanti)		
2	February (6-11)	Biodiversity of annelida
		Biodiversity of annelida
		Economic importance of annelida
SUNDAY - 12.02.2023		
3	February (13-17)	Earthworm - Type study
		Earthworm - Type study
		Earthworm - Type study
HOLIDAY - 18.02.2023 (Maha Shivratri)		
SUNDAY - 19.02.2023		
4	February (20-25)	Earthworm - Type study
		Earthworm - Type study
		Earthworm - Type study
SUNDAY - 26.02.2023		
5	February (27-28) March (1-4)	Metamerism in annelida
		Trochophore Larva
		General characters of arthropoda
SUNDAY - 05.03.2023		
Holi Vacations - 05.03.2023 to 12.03.2023		
7	March (13-18)	Biodiversity and economic importance of arthropoda
		classification of arthropoda
		class test
SUNDAY - 19.03.2023		
8	March (20-25)	Grasshopper- type study
		Grasshopper- type study
		Grasshopper- type study
SUNDAY - 26.03.2023		
HOLIDAY 23.03.2023 Shaheedi Diwas		

9	March (27-31) April (1)	Grasshopper- type study
		Grasshopper- type study
		Grasshopper- type study
HOLIDAY - 30.03.2023 (Ram Navmi)		
SUNDAY - 02.04.2023		
9	April (3-8)	
HOLIDAY - 04.04.2023 (Mahavir Jayanti)		
SUNDAY - 09.04.2023		
10	April (10-15)	Elements of Heredity and variations
		Varieties of gene interactions
		Linkage and recombination
SUNDAY - 16.04.2023		
HOLIDAY - 14.04.2023 (DR.B.R.Ambedkar Jayanti)		
11	April (17-21)	sex determination and its mechanism (extra Class on 24.6.21)
		sex linked inheritance
		Class test
SUNDAY - 23.04.2023		
Holiday Id-UI-Fitr/Parshuram Jayanti (Saturday)		
12	April (24-29)	sex linked inheritance
		extrachromosomal and cytoplasmic inheritance
		extrachromosomal and cytoplasmic inheritance
SUNDAY - 30.04.2023		
13	May (1-6)	Class test
		Revision
		Revision
SUNDAY - 07.05.2023		
14	May (8-13)	Class test
		Revision
		Revision
SUNDAY - 14.05.2023		
14	May (15-16)	Class test
		Class test
Examination 17.05.2023 Onwards.		

I.B. (PG) COLLEGE, PANIPAT

LESSON PLAN

SESSION 2022-23 (01.02.2023 to 16.05.2023)

Weekly Lesson Plan Even Semester)

UG (II / IV / VI - Semester)

Name of the Paper:- Physical Chemistry

Class: B.Sc II SEM

Name of the Teachers (Section Wise) : DR. VIKRAM KUMAR

WEEK	DATE	TOPICS
1	February (1-4)	Kinetics Rate of reaction, rate equation and its types, factors influencing the rate of a reaction – concentration, temperature
SUNDAY - 05.02.2023 Holiday (Guru Ravidass Jayanti)		
2	February (6-11)	factors influencing the rate of a reaction – , pressure, solvent, light, catalyst
SUNDAY - 12.02.2023		
3	February (13-17)	Order of a reaction, integrated rate expression for zero order, first order,
HOLIDAY - 18.02.2023 (Maha Shivratri)		
SUNDAY - 19.02.2023		
4	February (20-25)	second and third order reactions. Half life period of a reaction.
SUNDAY - 26.02.2023		
5	February (27-28) March (1-4)	Effect of temperature on the rate of reaction – Arrhenius equation.
SUNDAY - 05.03.2023		
Holi Vacations - 05.03.2023 to 12.03.2023		
7	March (13-18)	Theories of reaction rate – Simple collision theory for unimolecular collision. Transition state theory of bimolecular reactions.
SUNDAY - 19.03.2023		
8	March (20-25)	Electrochemistry Electrolytic conduction, factors affecting electrolytic conduction, specific conductance, molar conductance, equivalent conductance and relation among them,

SUNDAY - 26.03.2023		
HOLIDAY 23.03.2023 Shaheedi Diwas		
9	March (27-31) April (1)	variation with concentration. Arrhenius theory of ionization, Ostwald's Dilution Law.
HOLIDAY - 30.03.2023 (Ram Navmi)		
SUNDAY - 02.04.2023		
9	April (3-8)	Debye Huckel – Onsager's equation for strong electrolytes (elementary treatment only),
HOLIDAY - 04.04.2023 (Mahavir Jayanti)		
SUNDAY - 09.04.2023		
10	April (10-15)	Application of Kohlrausch's Law in calculation of conductance of weak electrolytes at infinite dilution.
SUNDAY - 16.04.2023		
HOLIDAY - 14.04.2023 (DR.B.R.Ambedkar Jayanti)		
11	April (17-21)	Applications of conductivity measurements: determination of degree of dissociation,
SUNDAY - 23.04.2023		
Holiday Id-UI-Fitr/Parshuram Jayanti (Saturday)		
12	April (24-29)	determination of K_a of acids determination of solubility product of sparingly soluble salts,
SUNDAY - 30.04.2023		
13	May (1-6)	conduc tometric titrations. Concepts of pH and pKa
SUNDAY - 07.05.2023		
14	May (8-13)	Buffer solution, Buffer action, Henderson – Hazel equation, Buffer mechanism of buffer action
SUNDAY - 14.05.2023		
14	May (15-16)	
Examination 17.05.2023 Onwards.		

I.B. (PG) COLLEGE, PANIPAT

LESSON PLAN

SESSION 2022-23 (01.02.2023 to 16.05.2023)

Weekly Lesson Plan Even Semester)

UG (II / IV / VI - Semester)

Name of the Paper:- Inorganic Chemistry

Class: B.Sc II Sem

Name of the Teachers (Section Wise) : PROF. ERA GARG

WEEK	DATE	TOPICS
1	February (1-4)	Hydrogen Bonding and Van der Waals forces Hydrogen Bonding – Definition, types, effects of hydrogen bonding on properties of substances, application
SUNDAY - 05.02.2023 Holiday (Guru Ravidass Jayanti)		
2	February (6-11)	Metallic Bond and semiconductors Metallic bond – Qualitative idea of valence bond and Band theories of metallic bond (conductors, semiconductors, insulators).
SUNDAY - 12.02.2023		
3	February (13-17)	Semiconductors – Introduction, types and applications. s-Block elements Comparative study of the elements including diagonal relationship,
HOLIDAY - 18.02.2023 (Maha Shivratri)		
SUNDAY - 19.02.2023		
4	February (20-25)	Anomalous behaviour of Lithium and Beryllium compared to other elements in the same group, salient features of hydrides, oxides, halides, hydroxides (methods of preparation excluded),
SUNDAY - 26.02.2023		
5	February (27-28) March (1-4)	behaviour of solution in liquid NH ₃ . Chemistry of Noble Gases General physical properties, low chemical reactivity, chemistry of xenon,
SUNDAY - 05.03.2023		
Holi Vacations - 05.03.2023 to 12.03.2023		
7	March (13-18)	structure and bonding in fluorides, oxides and oxyfluorides of xenon.
SUNDAY - 19.03.2023		
8	March (20-25)	p-Block elements: Electronic configuration, atomic and ionic size, metallic character, melting point, ionization energy, electron affinity, electronegativity, inert pair effect and diagonal

SUNDAY - 26.03.2023		
HOLIDAY 23.03.2023 Shaheedi Diwas		
9	March (27-31) April (1)	Boron family (13th group): Diborane: Preparation, properties and structure (as an example of electron deficient compound and multicenter bonding)
HOLIDAY - 30.03.2023 (Ram Navmi)		
SUNDAY - 02.04.2023		
9	April (3-8)	Borazine chemical properties and structure, relative strength of Trihalide of Boron as lewis acids, structure of aluminium(III) chloride.
HOLIDAY - 04.04.2023 (Mahavir Jayanti)		
SUNDAY - 09.04.2023		
10	April (10-15)	Carbon family and Nitrogen family (14th and 15th group): Catenation, Carbides, fluoro carbons, silicates (structural aspects).
SUNDAY - 16.04.2023		
HOLIDAY - 14.04.2023 (DR.B.R.Ambedkar Jayanti)		
11	April (17-21)	Oxides: Structure of oxides of nitrogen and phosphorus,
SUNDAY - 23.04.2023		
Holiday Id-UI-Fitr/Parshuram Jayanti (Saturday)		
12	April (24-29)	Oxyacids : Structure and relative acid strength of oxy acids of nitrogen and phosphorus, structure of white and Red phosphorus.
SUNDAY - 30.04.2023		
13	May (1-6)	Oxygen family (16th group): Oxy acids of sulphur – structure and acidic strength, Hydrogen Peroxide – properties and uses.
SUNDAY - 07.05.2023		
14	May (8-13)	Halogen family (17th group): Interhalogen compounds (their properties and structures), Hydra and oxy acids of chlorine – structure and comparison of acid strength, cationic nature of Iodine
SUNDAY - 14.05.2023		
14	May (15-16)	Revision,Class Test
Examination 17.05.2023 Onwards.		

I.B. (PG) COLLEGE, PANIPAT

LESSON PLAN

SESSION 2022-23 (01.02.2023 to 16.05.2023)

Weekly Lesson Plan Even Semester)

UG (II -Semester)

Name of the Paper:- English

Class:Bsc 2nd sem

Name of the Teachers (Section Wise) : Srishti Sharma

WEEK	DATE	TOPICS
1	February (1-4)	Introduction of "Our Civilization"
		About Author
		"Our Civilization" Text
		"Our Civilization" Text
SUNDAY - 05.02.2023 Holiday (Guru Ravidass Jayanti)		
2	February (6-11)	"Our Civilization "Text
		Revision
		Question/Answer discussion
		Question/Answer discussion
		Revision
SUNDAY - 12.02.2023		
3	February (13-17)	Translation practice
		Translation practice
		Translation Practice
		Introduction of " It's Question Time"
		About Author
HOLIDAY - 18.02.2023 (Maha Shivratri)		
SUNDAY - 19.02.2023		
4	February (20-25)	"It's Question Time" Text
		"It's Question Time"Text
		"It's Question Time"Text
		Revision
		Question/Answer discussion
SUNDAY - 26.02.2023		
5	February (27-28) March (1-4)	Test
		Precis writing
		Precis writing
		"An Interview with Christiaan Barnard"
		"An Interview with Christiaan Barnard"
SUNDAY - 05.03.2023		
Holi Vacations - 05.03.2023 to 12.03.2023		
7	March (13-18)	Revision
		Question/Answer discussion
		Question/Answer discussion
		Test
		Assignment 1
SUNDAY - 19.03.2023		
8	March (20-25)	"Untouchability and Caste System"
		"Untouchability and Caste System"
		"Untouchability and Caste System"
		Revision
		Test

SUNDAY - 26.03.2023		
HOLIDAY 23.03.2023 Shaheedi Diwas		
9	March (27-31)	Letter writing
		Letter writing
	April (1)	Letter Writing
		Assignment 2
		Assignment 2
HOLIDAY - 30.03.2023 (Ram Navmi)		
SUNDAY - 02.04.2023		
9	April (3-8)	Introduction of "Inhumanisation of war"
		"Inhumanisation of war"
		"Inhumanisation of war"
		"Inhumanisation of war"
		Revision
HOLIDAY - 04.04.2023 (Mahavir Jayanti)		
SUNDAY - 09.04.2023		
10	April (10-15)	Conditional Test
		Translation practice
		Translation Practice
		Introduction of " Seven types of Gender Inequality "
		" Seven Types of Gender Inequality "
SUNDAY - 16.04.2023		
HOLIDAY - 14.04.2023 (DR.B.R.Ambedkar Jayanti)		
11	April (17-21)	"Seven Types of Gender Inequality "
		"Seven Types of Gender Inequality "
		"Seven Types of Gender Inequality "
		Question/Answer discussion
		Question/Answer discussion
SUNDAY - 23.04.2023		
Holiday Id-UI-Fitr/Parshuram Jayanti (Saturday)		
12	April (24-29)	Revision
		Test
		Letter writing
		Letter Writing
		Test of letter writing
		Revision
SUNDAY - 30.04.2023		
13	May (1-6)	Precis practice
		Precis practice
		Precis practice
		Test
		Revision ch-1
		Translation
SUNDAY - 07.05.2023		
14	May (8-13)	Revision ch 2
		Revision ch 3
		Revision ch 4
		Revision Ch 5
		Revision Ch 6
		Important question discussion
SUNDAY - 14.05.2023		
14	May (15-16)	Important question discussion
		Test of full Syllabus
Examination 17.05.2023 Onwards.		

I.B. (PG) COLLEGE, PANIPAT

LESSON PLAN

SESSION 2022-23 (01.02.2023 to 16.05.2023)

Weekly Lesson Plan Even Semester)

UG (II - Semester)

Name of the Paper:- Number Theory And Trigonometry Class: B.Sc.-I

Name of the Teachers (Section Wise) : Dr. Arpana Garg

WEEK	DATE	TOPICS
1	February (1-4)	De Moivre's Theorem
		Its Examples and Problems
		Discussion
		Roots of a Complex Number
SUNDAY - 05.02.2023 Holiday (Guru Ravidass Jayanti)		
2	February (6-11)	Theorems Based on Roots of a complex Number
		Its Examples and Problems
		Solution Of Equations
		Problems
		Expansion of Trigonometric Functions
SUNDAY - 12.02.2023		
3	February (13-17)	Its Examples and Problems
		Expansion of Powers of Trigonometric Functions
		Expansion of Powers of Trigonometric Functions
		Problems and Test of the Chapter
		Exponential Function of complex Variable
HOLIDAY - 18.02.2023 (Maha Shivratri)		
SUNDAY - 19.02.2023		
4	February (20-25)	Problems and discussion
		Circular Function of a complex variable
		Hyperbolic function
		Problems
		Separation of Functions into real and imaginary part
		Logarithmic Function
SUNDAY - 26.02.2023		
5	February (27-28) March (1-4)	Exponential Function
		Problems
		Inverse Trigonometry Function
		examples
		revision
SUNDAY - 05.03.2023		
Holi Vacations - 05.03.2023 to 12.03.2023		
7	March (13-18)	Problems
		Gregory's Series
		problems
		examples
		Summation of series
		Method of Difference
SUNDAY - 19.03.2023		

8	March (20-25)	example
		C+iS method of Summation
		Types of C+iS Method Problems
		Problem Discussion
		Test
SUNDAY - 26.03.2023		
HOLIDAY 23.03.2023 Shaheedi Diwas		
9	March (27-31) April (1)	Divisibility
		Principle of Mathematical Induction
		Examples
		Problems
		Division Algorithm
HOLIDAY - 30.03.2023 (Ram Navmi)		
SUNDAY - 02.04.2023		
9	April (3-8)	Examples
		Fundamental Theorem of Arithmetic
		Examples
		Congruences
		Linear Congruence
HOLIDAY - 04.04.2023 (Mahavir Jayanti)		
SUNDAY - 09.04.2023		
10	April (10-15)	Diophantine Equation
		Examples
		Problems
		Problems
		Fermat Theorem
SUNDAY - 16.04.2023		
HOLIDAY - 14.04.2023 (DR.B.R.Ambedkar Jayanti)		
11	April (17-21)	Examples
		Wilson's Theorem
		Examples
		Problems
		Eulers Function
SUNDAY - 23.04.2023		
Holiday Id-UI-Fitr/Parshuram Jayanti (Saturday)		
12	April (24-29)	Examples
		Problems
		Residue System
		Chinese Remainder Theorem
		Examples
		Quadratic Residue
SUNDAY - 30.04.2023		
13	May (1-6)	Theorems Based on Roots of a complex Number
		Examples
		Quadratic Reciprocity Law
		Examples
		Problems
		Some Functions of Number Theory
SUNDAY - 07.05.2023		
14	May (8-13)	Greatest Integer Function
		Examples
		Arithmetic Functions
		Mobius Function
		Mobius Function
		Examples
SUNDAY - 14.05.2023		
14	May (15-16)	Test
		Revision
Examination 17.05.2023 Onwards.		

I.B. (PG) COLLEGE, PANIPAT

LESSON PLAN

SESSION 2022-23 (01.02.2023 to 16.05.2023)

Weekly Lesson Plan Even Semester)

UG (II - Semester)

Name of the Paper:- Ordinary Differential Equations Class: B.Sc.-I

Name of the Teachers (Section Wise) : Ms. Kanak Sharma

WEEK	DATE	TOPICS
1	February (1-4)	Introduction to Differential Equations, Types of Differential Equations
		Formation of Differential Equations and Geometrical Meaning
		Theorems and Questions based on Formation of Differential Eq.
		Exact Differential Equations and Questions based on it
SUNDAY - 05.02.2023 Holiday (Guru Ravidass Jayanti)		
2	February (6-11)	Discussion of Problems
		Introduction to Equations of First Order but not of First Degree
		Theorems based on Equations of First Order but not of First Degree
		Methods of solving Equations of First Order with degree higher than one
		Solution of Equations solvable for x
		Methods of solving equations solvable for y and problems based on it.
SUNDAY - 12.02.2023		
3	February (13-17)	Problem discussion
		Class Test
		Introduction to Lagrange's Equation and method for solving such Equations
		Introduction to Clairaut's Equation and method for solving such Equations
		Equations reducible to Clairaut's form and problems based on it
HOLIDAY - 18.02.2023 (Maha Shivratri)		
SUNDAY - 19.02.2023		
4	February (20-25)	Singular Solution, Discriminant, Questions related to p-
		Discussion of Problems
		Methods for finding Orthogonal Trajectories and Questions based on it
		Discussion of Problems
		Discussion of Problems
		Introduction to Linear Differential Equations with Constant Coefficients, Differential Operator
SUNDAY - 26.02.2023		
5	February (27-28) March (1-4)	Complete solution of Linear Differential Equations
		Auxiliary Equations, Methods for finding roots of Auxiliary Equations and Complete solution of Linear Differential Equations
		Inverse operator, Theorems based on Linear Differential Equations.
		Problem Discussion
		Introduction to the concept of Particular Integral and discussion of different methods of finding Particular Integral
		Questions based on finding solution of Linear Differential Equation
SUNDAY - 05.03.2023		
Holi Vacations - 05.03.2023 to 12.03.2023		

7	March (13-18)	Questions based on finding solution of Linear Differential Equation
		Class Test
		Introduction to Homogeneous Linear Differential Equations
		Discussion of methods of solving Homogeneous Linear Differential Equations,
		Questions based on solution of Homogeneous Linear Differential Equations
Discussion of Problems		
SUNDAY - 19.03.2023		
8	March (20-25)	Equations reducible to Homogeneous Linear form
		Discussion of methods for solving Equations reducible to Homogeneous Linear form.
		Definition of Linear Differential Equations of Second order and its examples
		Solution of Linear Differential Equations of Second order by changing the dependent variable
		Question Discussion
SUNDAY - 26.03.2023		
HOLIDAY 23.03.2023 Shaheedi Diwas		
9	March (27-31) April (1)	Solution of Linear Differential Equations of Second order by changing the independent variable and problems related to it
		Problem Discussion
		Introduction to the method of Variation of Parameters
		Solution of Linear Differential Equations of Second order by the method of undetermined coefficients
		Different ways of finding solution of these equations, questions based on it and Discussion of Problems.
HOLIDAY - 30.03.2023 (Ram Navmi)		
SUNDAY - 02.04.2023		
9	April (3-8)	Introduction to Ordinary Simultaneous Differential Equations- Definition and Examples
		Methods of solving Simultaneous Differential Equations with constant coefficients and questions related to it
		Question Discussion
		Solution of Simultaneous Differential Equations using Differential Operator
		Solution of Simultaneous Differential Equations using Differential Operator
HOLIDAY - 04.04.2023 (Mahavir Jayanti)		
SUNDAY - 09.04.2023		
10	April (10-15)	Problem Discussion
		Class Test
		Solution of Simultaneous Differential Equations using Method of Differentiation
		Discussion of some other methods for solving Simultaneous Differential Equations and questions related to it
		Discussion of problems
SUNDAY - 16.04.2023		
HOLIDAY - 14.04.2023 (DR.B.R.Ambedkar Jayanti)		
11	April (17-21)	Solution of Simultaneous Differential Equations using Method of finding the second integral with the help of first integral
		Discussion of Problems
		Total Differential Equations- Definition and Examples
		Theorem for the Integrability of Total Differential Equations and questions based on it
		Concept of Condition for Exactness
SUNDAY - 23.04.2023		
Holiday Id-Ul-Fitr/Parshuram Jayanti (Saturday)		
12	April (24-29)	Solution of Total Differential Equations by using method of inspection and problems related to it
		Discussion of Problems
		Solution of Total Differential Equations by regarding one variable as constant out of three variables
		Questions discussion
		Class Test
Method for solving Homogeneous Equations and problems related to it		
SUNDAY - 30.04.2023		

13	May (1-6)	Problem Discussion
		Solution of Total Differential Equations by using method of Auxiliary Equation
		Solution of Total Differential Equations by using method of Auxiliary Equation
		Problem Discussion
		Class Test
		Revision
SUNDAY - 07.05.2023		
14	May (8-13)	Revision
		Revision
		Revision
		Revision
		Revision
		Revision
SUNDAY - 14.05.2023		
14	May (15-16)	Revision
		Revision
Examination 17.05.2023 Onwards.		

I.B. (PG) COLLEGE, PANIPAT

LESSON PLAN

SESSION 2022-23 (01.02.2023 to 16.05.2023)

Weekly Lesson Plan Even Semester)

UG (II - Semester)

Name of the Paper:- Vector Calculus

Class: B.Sc. I

Name of the Teachers (Section Wise) : Shivani Mittal

WEEK	DATE	TOPICS
1	February (1-4)	Introduction to Vectors
		Definitions and examples on Scalar Triple Product
		Properties of Scalar Triple Product
		Examples on related Topic
SUNDAY - 05.02.2023 Holiday (Guru Ravidass Jayanti)		
2	February (6-11)	Examples on related Topic
		Definitions and examples on Vector Triple Product
		Examples on related Topic
		Examples on related Topic
		Properties of Scalar Triple Product
SUNDAY - 12.02.2023		
3	February (13-17)	Examples on related Topic
		More Examples
		Reciprocal System of Vectors : Definition and Some Results
		Properties of Reciprocal System of Vectors
		Examples on related Topic
HOLIDAY - 18.02.2023 (Maha Shivratri)		
SUNDAY - 19.02.2023		
4	February (20-25)	More Examples
		Problems Discussion
		Test
		Differentiation of Vectors
		Theorem on Continuity of Vectors
		Some more Theorems
SUNDAY - 26.02.2023		
5	February (27-28) March (1-4)	Related Examples
		Related Examples
		Curves In Space
		Related Examples
		Related Examples
SUNDAY - 05.03.2023		
Holi Vacations - 05.03.2023 to 12.03.2023		
7	March (13-18)	Total differentials of Vectors
		Rules for finding Partial Derivative of Vectors
		Related Examples
		The vector Differential Operator
		Gradient of a Scalar Field
SUNDAY - 19.03.2023		

8	March (20-25)	Related Examples
		Problems Discussion
		Examples on Level Surfaces
		Divergence of a Vector function
		Properties of Divergence
SUNDAY - 26.03.2023		
HOLIDAY 23.03.2023 Shaheedi Diwas		
9	March (27-31) April (1)	Related Examples
		Related Examples
		Curl of a Vector Point Function
		Properties of Curl
		Related Examples
HOLIDAY - 30.03.2023 (Ram Navmi)		
SUNDAY - 02.04.2023		
9	April (3-8)	Laplacian Operator, Harmonic Function
		Related Examples
		Problems Discussion
		Test
		Curvilinear Co-ordinates
HOLIDAY - 04.04.2023 (Mahavir Jayanti)		
SUNDAY - 09.04.2023		
10	April (10-15)	Arc length, Volume Element and area element
		Arc length, Volume Element and area element
		Gradient, divergence and curl in terms of curvilinear co-ordinates
		Gradient, divergence and curl in terms of curvilinear co-ordinates
		Spherical Co-ordinates
SUNDAY - 16.04.2023		
HOLIDAY - 14.04.2023 (DR.B.R.Ambedkar Jayanti)		
11	April (17-21)	Cylindrical Co-ordinates
		Cylindrical Co-ordinates
		Vector Integration
		Some Results for Integration
		Examples Reading
SUNDAY - 23.04.2023		
Holiday Id-UI-Fitr/Parshuram Jayanti (Saturday)		
12	April (24-29)	Some Results for Integration
		Related Examples
		Line Integrals
		Line Integrals
		Related Examples
		Related Examples
SUNDAY - 30.04.2023		
13	May (1-6)	Problems Discussion
		Test
		Related Examples
		Volume Integrals
		Volume Integrals
		Related Examples
SUNDAY - 07.05.2023		
14	May (8-13)	Gauss's divergence Theorem
		Gauss's divergence Theorem
		Some imp Deductions
		Some imp Deductions
		Related Examples
		Problems Discussion
SUNDAY - 14.05.2023		
14	May (15-16)	Problems Discussion
		Problems Discussion
Examination 17.05.2023 Onwards.		

I.B. (PG) COLLEGE, PANIPAT

LESSON PLAN

SESSION 2022-23 (01.02.2023 to 16.05.2023)

Weekly Lesson Plan Even Semester)

UG (II / IV / VI - Semester) :Second

Name of the Paper:- Properties of Matter and Kinetic Theory of Gases Class:BSC 1

Name of the Teachers (Section Wise) : Anjali Singla

WEEK	DATE	TOPICS
1	February (1-4)	Discussion of Semester Exams
SUNDAY - 05.02.2023 Holiday (Guru Ravidass Jayanti)		
2	February (6-11)	Rotation of rigid body, Moment of inertial, Torque, angular momentum, Kinetic Energy of Rotation
		Theorem of perpendicular and parallel axes (with proof)
SUNDAY - 12.02.2023		
3	February (13-17)	, Moment of inertia of solid sphere, hollow sphere, spherical shell, solid cylinder, hollow cylinder
		solid bar of rectangular cross-section, Fly wheel, Moment of inertia of an irregular body
		Acceleration of a body rolling down on an inclined plane.
HOLIDAY - 18.02.2023 (Maha Shivratri)		
SUNDAY - 19.02.2023		
4	February (20-25)	Elasticity, Stress and Strain, Hook's law, Elastic constant and their relations, Poisson's ratio, Torsion of cylinder and twisting couple
		Determination of coefficient of modulus of rigidity for the material of wire by Maxwell's needle, Bending of beam (Bending moment and its magnitude
SUNDAY - 26.02.2023		
5	February (27-28) March (1-4)	Cantilever and Centrally loaded beam
		Assignment 1 Discussion + Numericals
		Determination of Young's modulus for the material of the beam
SUNDAY - 05.03.2023		
Holi Vacations - 05.03.2023 to 12.03.2023		
7	March (13-18)	Elastic constants for the material of the wire by Searle's method.
		Assumption of Kinetic theory of gases, pressure of an ideal gas (with derivation)
		Kinetic interpretation of Temperature, Ideal Gas equation, Degree of freedom,
SUNDAY - 19.03.2023		

8	March (20-25)	, Law of equipartition of energy and its application for specific heat of gases, Real gases
		Vander wall's equation, Brownian motion(Qualitative)
		Conditional Test
SUNDAY - 26.03.2023		
HOLIDAY 23.03.2023 Shaheedi Diwas		
9	March (27-31) April (1)	Maxwell's distribution of speed and velocities (derivation required)
		Numerical Practices and doubt solving
		Class Activity 1
HOLIDAY - 30.03.2023 (Ram Navmi)		
SUNDAY - 02.04.2023		
9	April (3-8)	Discussion of Test
		Experimental verification of Maxwell's law of speed distribution
		Numericals
HOLIDAY - 04.04.2023 (Mahavir Jayanti)		
SUNDAY - 09.04.2023		
10	April (10-15)	most probable speed, average and r.m.s. speed
		Doubt Solving
		Assignment 2
SUNDAY - 16.04.2023		
HOLIDAY - 14.04.2023 (DR.B.R.Ambedkar Jayanti)		
11	April (17-21)	Discussion of Assignment 2
		Class Activity 2
		Numericals
SUNDAY - 23.04.2023		
Holiday Id-Ul-Fitr/Parshuram Jayanti (Saturday)		
12	April (24-29)	Mean Free Path
		Transport of Energy
		Transport of Momentum
SUNDAY - 30.04.2023		
13	May (1-6)	Numericals
		Diffusion of gases
		Doubt Solving
SUNDAY - 07.05.2023		
14	May (8-13)	Revision + Doubts +Numericals
SUNDAY - 14.05.2023		
14	May (15-16)	Discussion
Examination 17.05.2023 Onwards.		

I.B. (PG) COLLEGE, PANIPAT

LESSON PLAN

SESSION 2022-23 (01.02.2023 to 16.05.2023)

Weekly Lesson Plan Even Semester)

UG (II - Semester)

Name of Paper :- Semiconductor Devices

Class: B.Sc (I)(Physics)

Name of the Teacher(Section wise) : Ms. Manisha

WEEK	DATE	TOPICS
1	February (1-4)	Unit I: Semiconductors
		Energy bands in solids, Intrinsic and extrinsic semiconductors, carrier mobility and electrical resistivity of semiconductors
		Hall effect, p-n junction diode and their
SUNDAY - 05.02.2023 Holiday (Guru Ravidass Jayanti)		
2	February (6-11)	characteristics, Zener and Avalanche breakdown,
		Zener diode, Zener diode as a voltage
		regulator. Light emitting diodes (LED)
SUNDAY - 12.02.2023		
3	February (13-17)	Photoconduction in semiconductors, Photodiode,
		Solar Cell,
HOLIDAY - 18.02.2023 (Maha Shivratri)		
SUNDAY - 19.02.2023		
4	February (20-25)	p-n junction as a rectifier, half wave and full wave rectifiers (with derivation)
		filters
		Unit 2: Transistors
		Junction transistors, Working of NPN and PNP transistors, Three configurations of
SUNDAY - 26.02.2023		
5	February (27-28) March (1-4)	transistor (C-B, C-E, C-C modes)
		Common base, common emitter and common
		collector characteristics of transistor, Constants of a transistor and their relation,
SUNDAY - 05.03.2023		
Holi Vacations - 05.03.2023 to 12.03.2023		
7	March (13-18)	Advantages and disadvantages of C-E configuration. D.C. load line
		Transistor biasing
		various methods of transistor biasing and stabilization.
SUNDAY - 19.03.2023		

8	March (20-25)	Unit 3: Transistor Amplifiers
		Amplifiers, Classification of amplifiers, common base
		common emitter amplifiers,
SUNDAY - 26.03.2023		
HOLIDAY 23.03.2023 Shaheedi Diwas		
9	March (27-31) April (1)	coupling of amplifiers
		Conditional Test
HOLIDAY - 30.03.2023 (Ram Navmi)		
SUNDAY - 02.04.2023		
9	April (3-8)	various methods of coupling, Resistance- Capacitance (RC)
		coupled amplifier (two stage, concept of band width, no derivation),
		Feedback in amplifiers, advantages of negative feedback,
HOLIDAY - 04.04.2023 (Mahavir Jayanti)		
SUNDAY - 09.04.2023		
10	April (10-15)	emitter follower, distortion in amplifiers.
		Numericals
SUNDAY - 16.04.2023		
HOLIDAY - 14.04.2023 (DR.B.R.Ambedkar Jayanti)		
11	April (17-21)	Unit 4: Oscillators
		Oscillators, Principle of oscillation
		classification of oscillators, Condition for self
SUNDAY - 23.04.2023		
Holiday Id-UI-Fitr/Parshuram Jayanti (Saturday)		
12	April (24-29)	sustained oscillation: Barkhausen criterion for oscillation,
		Tuned collector common emitter oscillator
		, Hartley oscillator, C.R.O. (Principle and Working).
SUNDAY - 30.04.2023		
13	May (1-6)	numericals
		Test
		Revision
SUNDAY - 07.05.2023		
14	May (8-13)	Revision
		Revision
		Revision
SUNDAY - 14.05.2023		
14	May (15-16)	
Examination 17.05.2023 Onwards.		