## MHARANA PRATAP P.G. COLLEGE, JUNGLE DHUSAN, GORAKHPUR

Class: B.Sc. I (Semester I) Lesson Plan: 2025-26 Subject: Zoology

Date	Num	Teacher's	Unit	Topic	Lecture
16-07-2025	1	V.K.SINGH	1	Structure and Function	Plasma membrane: chemical structure—lipids
10-07-2023			1	of Cell Organelles I	proteins
17-07-2025	2	V.K.SINGH	1	Structure and Function	Plasma membrane: chemical structure—
	_	1111 0010	*	of Cell Organelles I	lipids and proteins
18-07-2025	3	V.K.SINGH	1	Structure and Function	Plasma membrane: chemical structure—
10.07.2025				of Cell Organelles I	lipids and proteins
19-07-2025	4	V.K.SINGH		CLASS TEACHING Structure and Function	Endomembrane system: protein targeting
21-07-2025	4	V.K.SINOII	1	of Cell Organelles I	and sorting,
	5	V.K.SINGH		Structure and Function	Endomembrane system: protein targeting
22-07-2025	3		1	of Cell Organelles I	and sorting,
	6	V.K.SINGH		Structure and Function	Endomembrane system: protein targeting
23-07-2025			1	of Cell Organelles I	and sorting,
24-07-2025	7	V.K.SINGH	1	Structure and Function	Endocytosis
24-07-2023			1	of Cell Organelles I	
25-07-2025	8	V.K.SINGH	1	Structure and Function	Exocytosis
			1	of Cell Organelles I	
26-07-2025		W W GD CO		CLASS TEACHING	
28-07-2025	9	V.K.SINGH	2	Structure and Function	Cytoskeleton: microtubules,
	10	V.K.SINGH		of Cell Organelles II Structure and Function	Microfilaments, intermediate filaments
29-07-2025	10	HD/IIC.A. v	2	of Cell Organelles II	ivincioniaments, intermediate maments
	11	V.K.SINGH		Structure and Function	Mitochondria: Structure
30-07-2025	11		2	of Cell Organelles II	The choldran Structure
21 05 2025	12	V.K.SINGH	2	Structure and Function	Oxidative phosphorylation
31-07-2025			2	of Cell Organelles II	
01-08-2025	13	V.K.SINGH	2	Structure and Function	Oxidative phosphorylation
			- 4	of Cell Organelles II	
02-08-2025				CLASS TEACHING	
04-08-2025	14	V.K.SINGH	2	Structure and Function	Oxidative phosphorylation
	1.5	V.K.SINGH		of Cell Organelles II	Peroxisome and ribosome: structure and
05-08-2025	15	HD/IIC.A. v	2	Structure and Function of Cell Organelles II	Peroxisome and ribosome: structure and function
	16	V.K.SINGH		Structure and Function	Peroxisome and ribosome: structure and
06-08-2025	10		2	of Cell Organelles II	function
07.00.000	1	R.N.SINGH		Nucleus and Chromatin	Structure and function of nucleus in
07-08-2025			3	Structure	eukaryotes
00 00 2025	2	R.N.SINGH	3	Nucleus and Chromatin	Chemical structure and base composition
08-08-2025			3	Structure	of DNA
11-08-2025				CLASS TEACHING	
12-08-2025	3	R.N.SINGH	3	Nucleus and Chromatin	Chemical structure and base composition
	4	R.N.SINGH		Structure Nucleus and Chromatin	of RNA
13-08-2025	4	HDMIG.M.A	3	Nucleus and Chromatin Structure	DNA supercoiling
	5	R.N.SINGH		Nucleus and Chromatin	Chromatin organization,
14-08-2025	ر	1	3	Structure	Cinomatin organization,
40.00.00	6	R.N.SINGH	-	Nucleus and Chromatin	Structure of chromosomes
18-08-2025			3	Structure	
10 00 2025	7	R.N.SINGH	2	Nucleus and Chromatin	Types of DNA
19-08-2025			3	Structure	
20-08-2025				CLASS TEACHING	
21-08-2025	8	R.N.SINGH	3	Nucleus and Chromatin	Types of RNA
				Structure	
22-08-2025	9	R.N.SINGH	4	Cell cycle, Cell Division	Cell division: mitosis and meiosis

				and Cell Signaling	
23-08-2025	10	R.N.SINGH	4	Cell cycle, Cell Division	Cell division: mitosis and meiosis
23-06-2025			4	and Cell Signaling	
25-08-2025	11	R.N.SINGH	4	Cell cycle, Cell Division and Cell Signaling	Cell cycle and its regulation,
26-08-2025	12	R.N.SINGH	4	Cell cycle, Cell Division and Cell Signaling	Cell cycle and its regulation,
27-08-2025				MONTHLY EVALUATION	
28-08-2025	13	R.N.SINGH	4	Cell cycle, Cell Division and Cell Signaling	Apoptosis,
	14	R.N.SINGH		Cell cycle, Cell Division	Signal transduction: intracellular signaling
29-08-2025			4	and Cell Signaling	and cell surface receptors via G-protein linked receptors
30-08-2025	15	R.N.SINGH	4	Cell cycle, Cell Division and Cell Signaling	Signal transduction: intracellular signaling and cell surface receptors via G-protein linked receptors
01-09-2025	16	R.N.SINGH	4	Cell cycle, Cell Division and Cell Signaling	JAK- STAT pathway
02-09-2025	17	R.N.SINGH	4	Cell cycle, Cell Division and Cell Signaling	JAK- STAT pathway
03-09-2025				CLASS TEACHING	
04-09-2025	17	V.K.SINGH	5	Mendelism and Sex Determination	Basic principles of heredity: Mendel's laws
06-09-2025	18	V.K.SINGH	5	Mendelism and Sex Determination	Monohybrid and dihybrid crosses
08-09-2025	19	V.K.SINGH	5	Mendelism and Sex Determination	Complete and Incomplete Dominance,
09-09-2025	20	V.K.SINGH	5	Mendelism and Sex Determination	Penetrance and expressivity,
10-09-2025	21	V.K.SINGH	5	Mendelism and Sex Determination	Genic Sex-Determining Systems,
11-09-2025				CLASS TEACHING	
12-09-2025	22	V.K.SINGH	5	Mendelism and Sex Determination	Environmental Sex Determination,
13-09-2025	23	V.K.SINGH	5	Mendelism and Sex Determination	Sex Determination in Drosophila,
15-09-2025	24	V.K.SINGH	5	Mendelism and Sex Determination	Sex Determination in Humans,
16-09-2025	25	V.K.SINGH	5	Mendelism and Sex Determination	Sex-linked characteristics and Dosage compensation
17-09-2025	26	V.K.SINGH	5	Mendelism and Sex Determination	Sex-linked characteristics and Dosage compensation
18-09-2025				CLASS TEACHING	
19-09-2025	27	V.K.SINGH	6	Extensions of Mendelism, Genes and Environment	Extensions of Mendelism: Multiple Alleles,
20-09-2025	28	V.K.SINGH	6	Extensions of Mendelism, Genes and Environment	Gene Interaction,
22-09-2025	29	V.K.SINGH	6	Extensions of Mendelism, Genes and Environment	Cytoplasmic Inheritance
23-09-2025	30	V.K.SINGH	6	Extensions of Mendelism, Genes and Environment	Genetic Maternal Effects,
24-09-2025	31	V.K.SINGH	6	Extensions of Mendelism, Genes and	Genomic Imprinting, Anticipation,

				Environment	
25-09-2025				MONTHLY	
23-UY-2U25				EVALUATION	
	32	V.K.SINGH		Extensions of	Interaction Between Genes and Environment:
26-09-2025			6	Mendelism, Genes and	
				Environment	
	33	V.K.SINGH		Extensions of	Environmental Effects on Gene Expression
27-09-2025			6	Mendelism, Genes and	
		WW CDICH		Environment	
29-09-2025	34	V.K.SINGH	6	Extensions of Mendelism, Genes and	Inheritance of Continuous Characteristics
29-09-2023			0	Environment	
	18	R.N.SINGH		Human Chromosomes	Human karyotype,
30-09-2025	10		7	and Patterns of	Traman karyotype,
			-	Inheritance	
	19	R.N.SINGH		Human Chromosomes	Chromosomal anomalies: Structural and
03-10-2025			7	and Patterns of	numerical aberrations with examples,
				Inheritance	
04-10-2025				CLASS TEACHING	
	20	R.N.SINGH		Human Chromosomes	Chromosomal anomalies: Structural and
06-10-2025			7	and Patterns of	numerical aberrations with examples,
				Inheritance	
05 40 5055	21	R.N.SINGH	_	Human Chromosomes	Chromosomal anomalies: Structural and
07-10-2025			7	and Patterns of	numerical aberrations with examples,
	22	R.N.SINGH		Inheritance Human Chromosomes	Pedigree analysis
08-10-2025	22	K.N.SINGH	7	and Patterns of	redigree analysis
00-10-2025			,	Inheritance	
	23	R.N.SINGH		Human Chromosomes	Pedigree analysis
09-10-2025			7	and Patterns of	, and a grant of gran
				Inheritance	
10-10-2025	35	V.K.SINGH	8	Immune System and its	Historical perspective of Immunology,
10-10-2023			8	Components	
11-10-2025				CLASS TEACHING	
24-10-2025	36	V.K.SINGH	8	Immune System and its	Innate and Adaptive Immunity
2110 2020				Components	
25-10-2025	37	V.K.SINGH	8	Immune System and its	Structure and functions of different classes
	20	V.K.SINGH		Components  Immuno System and its	of immunoglobulins, Hypersensitivity,  Structure and functions of different classes
27-10-2025	38	HDMIC.A.V	8	Immune System and its Components	of immunoglobulins, Hypersensitivity,
	39	V.K.SINGH		Immune System and its	Structure and functions of different classes
29-10-2025	3)		8	Components	of immunoglobulins, Hypersensitivity,
20 40 202	40	V.K.SINGH	_	Immune System and its	Clonal selection,
30-10-2025			8	Components	,
31 10 2025				MONTHALY	
31-10-2025				EVALUATION	
01-11-2025	41	V.K.SINGH	8	Immune System and its	Complement system,
01-11-2023			3	Components	
03-11-2025	42	V.K.SINGH	8	Immune System and its	Humoral immunity and cell mediated
	2.	D M GDIGH	_	Components	immunity,
04-11-2025	24	R.N.SINGH	8	Immune System and its	Humoral immunity and cell mediated
	25	R.N.SINGH		Components Immune System and its	immunity, Immunoglobulin and T-cell receptor genes:
	23	13.13.1311		Components	organization of Ig gene loci, molecular
06-11-2025			8	Components	mechanism of generation of antibody
					diversity
	26	R.N.SINGH		Immune System and its	Immunoglobulin and T-cell receptor genes:
07-11-2025			8	Components	organization of Ig gene loci, molecular
					mechanism of generation of antibody

					diversity
08-11-2025				CLASS TEACHING	
10-11-2025	27	R.N.SINGH	8	Immune System and its Components	Immunoglobulin and T-cell receptor genes: organization of Ig gene loci, molecular mechanism of generation of antibody
11-11-2025	28	R.N.SINGH	8	Immune System and its Components	HLA complex: organization, class I and II HLA molecules, expression of HLA genes
12-11-2025	29	R.N.SINGH	8	Immune System and its Components	HLA complex: organization, class I and II HLA molecules, expression of HLA genes
13-11-2025	30	R.N.SINGH	1	Structure and Function of Cell Organelles I	Introduction to all national Biologists (Zoologists) who have contributed/contributing to Zoological and Life Sciences as a mark of tribute to ancient and modern biology will be included as part of the Continuous Internal Evaluation (CIE)
14-11-2025	31	R.N.SINGH	1	Structure and Function of Cell Organelles I	Introduction to all national Biologists (Zoologists) who have contributed/contributing to Zoological and Life Sciences as a mark of tribute to ancient and modern biology will be included as part of the Continuous Internal Evaluation (CIE)
15-11-2025				CLASS TEACHING	