

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

Class: B.Sc. I (Semester I)

Lesson Plan: 2022-23

Subject: Zoology

Date	Lecture No.	Teacher's Name	Paper/ Unit	Chapter	Topic
1.8.2022	1	R.N.Singh	1	Structure & Function of cell organelles I	Plasma membrane, chemical structure, lipids, proteins
3.8.2022	1	SK	2	Structure & Function of cell organelles II	Cytoskeleton; microtubules, microfilaments, intermediate filaments
4.8.2022	2	R.N.Singh	3	Nucleus & chromatin structure	Structure and function of nucleus in eukaryotes
5.8.2022				Class Teaching	
6.8.2022	2	SK	4	Cell cycle, cell division & cell signaling	Cell division mitosis and meiosis
8.8.2022	3	SK	5	Mendelism & sex determination	Mendel's laws, monohybrid and dihybrid crosses
10.8.2022	4	SK	6	Extension of mendelism, genes & environment	Multiple alleles, gene interaction
11.8.2022	5	SK	7	Human chromosomes & Pattern of Inheritance	Human karyotype
13.8.2022	3	RN Singh	8	Immune system & its components	Historical perspective of Immunology, Innate and Adaptive Immunity
16.8.2022				Class Teaching	
20.8.2022	4	R.N.Singh	1	Structure & Function of cell organelles I	Protein targeting and sorting, endocytosis, exocytosis
22.8.2022	6	SK	2	Structure & Function of cell organelles II	Cytoskeleton; microtubules, microfilaments, intermediate filaments
23.8.2022	5	R.N.Singh	3	Nucleus & chromatin structure	Chemical structure and base composition of DNA and RNA
24.8.2022				Monthly Evaluation	
25.8.2022	7	SK	4	Cell cycle, cell division & cell signaling	Cell cycle and its regulation, apoptosis
26.8.2022	8	SK	5	Mendelism & sex determination	Complete and incomplete dominance
27.8.2022	9	SK	6	Extension of mendelism, genes & environment	Penetrance and expressivity
1.9.2022	10	SK	7	Human chromosomes & Pattern of Inheritance	Chromosomal anomalies
2.9.2022	6	R.N.Singh	8	Immune system & its components	Structure and functions of different classes of immunoglobulins, Hypersensitivity
3.9.2022				Class Teaching	
7.9.2022	7	R.N.Singh	1	Structure & Function of cell organelles I	Introduction to all national Biologists (Zoologists)
10.9.2022	11	SK	2	Structure & Function of cell organelles II	Mitochondria; structure, oxidative phosphorylation
12.9.2022	8	R.N.Singh	3	Nucleus & chromatin structure	DNA supercoiling, chromatin organization, structure of chromosome
13.9.2022				Class Teaching	

15.9.2022	12	SK	4	Cell cycle, cell division & cell signaling	Signal transduction; intracellular signaling and cell surface
16.9.2022	13	SK	5	Mendelism & sex determination	Genic sex-determining system, environmental sex determination
19.9.2022	14	SK	6	Extension of mendelism, genes & environment	Genomic imprinting, anticipation
20.9.2022	15	SK	7	Human chromosomes & Pattern of Inheritance	Structural and numerical aberrations with examples
21.9.2022	9	R.N.Singh	8	Immune system & its components	Innate and adaptive immunity, clonal selection, complement system.
22.9.2022				Class Teaching	
26.9.2022	10	R.N.Singh	1	Structure & Function of cell organelles I	Contributed to Zoological and life sciences as a mark tribute to ancient
27.9.2022	16	SK	2	Structure & Function of cell organelles II	Mitochondria; structure, oxidative phosphorylation
28.9.2022	11	R.N.Singh	3	Nucleus & chromatin structure	DNA supercoiling, chromatin organization, structure of chromosome
29.9.2022				Monthly Evaluation	
30.9.2022	17	SK	4	Cell cycle, cell division & cell signaling	Reception via G-protein linked receptors.
1.10.2022	18	SK	5	Mendelism & sex determination	Sex determination in <i>Drosophila</i> , sex-determination in humans
7.10.2022	19	SK	6	Extension of mendelism, genes & environment	Interaction between genes and environment, environmental effect on gene expression
8.10.2022	20	SK	7	Human chromosomes & Pattern of Inheritance	Structural and numerical aberrations with examples
10.10.2022	12	R.N.Singh	8	Immune system & its components	Humoral immunity and cell mediated immunity
11.10.2022				Class Teaching	
14.10.2022	13	R.N.Singh	1	Structure & Function of cell organelles I	Contributed to Zoological and life sciences as a mark tribute to ancient
15.10.2022	21	SK	2	Structure & Function of cell organelles II	Peroxisome and ribosome; structure and function
17.10.2022	14	R.N.Singh	3	Nucleus & chromatin structure	Types of DNA and RAN
18.10.2022				Monthly Evaluation	
19.10.2022	22	SK	4	Cell cycle, cell division & cell signaling	JAK-STAT pathway
20.10.2022	23	SK	5	Mendelism & sex determination	Sex linked characteristics and dosage compensation
28.10.2022	24	SK	6	Extension of mendelism, genes & environment	Inheritance of continuous characteristics
29.10.2022	25	SK	7	Human chromosomes & Pattern of Inheritance	Pedigree analysis
1.11.2022	15	R.N.Singh	8	Immune system & its components	Immunoglobulin and T cell receptor genes, organization of Ig gene loci, molecular mechanism of generation of antibody diversity. HLA complex, Organization class I and II HLA molecules, expression of HLA

					genes
2.11.2022				Class Teaching	
7.11.2022	16	R.N.Singh	1	Structure & Function of cell organelles I	Modern biology will be included as part of the CIE
9.11.2022	26	SK	2	Structure & Function of cell organelles II	Peroxisome and ribosome; structure and function
10.11.2022	17	R.N.Singh	3	Nucleus & chromatin structure	Types of DNA and RAN
11.11.2022				Class Teaching	
12.11.2022	27	SK	4	Cell cycle, cell division & cell signaling	JAK-STAT pathway
14.11.2022	28	SK	5	Mendelism & sex determination	Sex linked characteristics and dosage compensation
15.11.2022	29	SK	6	Extension of mendelism, genes & environment	Inheritance of continuous characteristics

