



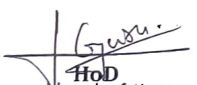
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DEPARTMENT OF ZOOLOGY
Information and Communication Technologies
2023-24

Sl. No	Sem	Topic	Material Format	Description	ICT Tools
1	I	MITOCHONDRIA	PPT	mitochondria - Structure and function in eukaryotes – Basic structure of Mitochondria, cross section of mitochondria, different structures within the mitochondria	Computer / Projector
2	I	TYPES AND STRUCTURE OF CHROMOSOMES	PPT	Structure of chromosomes – Types of Chromosomes (Telocentric, Acrocentric, Submetacentric, and Metacentric), ultra structure of chromosome.	Computer / Projector
3	I	CELL CYCLE, CELL DIVISION AND CELL SIGNALING	PPT	Cell cycle, cell division and cell signalling – Cell signaling pathways play a major role in cell division. Cells do not normally divide unless they are stimulated by signals from other cells. The ligands that promote cell growth are called growth factors Schematic structure of Cell Division, Mitosis and Meiosis	Computer / Projector
4	I	MENDELISM AND SEX DETERMINATION	PPT	Mendelism and sex determination – Monohybrid cross, Dihybrid cross, Incomplete Dominance.	Computer / Projector
5	I	TRANSLATION IN PROKARYOTES	PPT	Translation in Prokaryotes	Computer / Projector
6	II	METABOLISM OF CARBOHYDRATES AND LIPIDS	PPT	Metabolism of carbohydrates - Monosaccharide, Disaccharides structure, types lipids.	Computer / Projector

7	II	NERVOUS SYSTEM	PPT	Nervous system- Structure of Neuron, myelinated and non- myelinated neurons.	Computer
8	II	MUSCULAR SYSTEM IN HUMANS	PPT	Muscular system in humans - Ultra structure of Muscle	Computer / Projector
9	III	LIGHT MICROSCOPE, DARK FIELD MICROSCOPE	PPT	Light microscope, Dark field microscope – Diagrammatic view, Function and uses of the insrtuments	Computer / Projector
10	III	GENETIC CODE	PPT	Genetic code – genetic code and Regulation of gene expression in prokaryote	Computer / Projector
11	IV	BIOSTATISTICS	PPT	Biostatistics – central tendency (mean, mode and median)	Computer / Projector
12	IV	MONOCLONAL ANTIBODIES	PPT	Monoclonal antibodies- functions of antibodies and how they are synthesised	Computer / Projector
13	IV	BLOOD GROUPING	PPT	Types of blood – A, B, AB, O Blood groups	Computer / Projector
14	V	FOSSILS	PPT	Types of fossils - human fossils and horse fossils	Computer / Projector
15	V	BIOLOGICAL CLOCK	PPT	Biological Clock, Circadian Rhythms	Computer / Projector
16	V	CANCER BIOLOGY	PPT	Cancer Biology – types of cancers, carcinogenic agents and treatments.	Computer / Projector
17	VI	REPRODUCTIVE BIOLOGY	PPT	Reproductive biology – Male and female reproductive structures	Computer / Projector
18	VI	HORMONAL REGULATION IN MALES	PPT	Hormonal regulation in males- hormones secreted by male gonads and feedback mechanism	Computer / Projector
19	VI	IN VITRO FERTILIZATION	PPT	In Vitro Fertilization – Mechanism of IVF	Computer / Projector


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