

SARASWATI MAHILA MAHAVIDHYALAYA, PALWAL

LESSON-PLAN

Class: Bsc Ist yr

Semester: ODD/EVEN

Subject: Cell Biology (Zoology)

Session: 2020-21

Lecture Number	Topic
1	Plasma Membrane & structural models of Plasma membrane
2.	Chemical composition & modification of Plasma membrane
3.	Types of Desmosomes, Functions of Plasma membrane
4.	Physical process
5.	Active process
6.	Endocytosis and Exocytosis
7.	Endoplasmic Reticulum - Discovery, Definition, Occurrence, Type, Ultrastructure
8.	Modification of ER, interrelationship Between ER and other membranes
9.	Functions of ER
10.	Golgi Complex:- Discovery, Definition & Ultrastructure.
11.	Functions of golgi body - I
12.	Functions of golgi body - II
13.	Ribosomes; → Discovery, Definition, occurrence, Types, Ultrastructure
14.	Chemical composition & Biogenesis of ER
15.	Functions of ER
16.	Lysosomes; → Discovery, Definition, Occurrence, Polymorphism in lysosomes
17.	Functions of lysosomes - I

Signature:

SARASWATI MAHILA MAHAVIDHYALAYA, PALWAL

LESSON-PLAN

Class: Bsc Ist yr. Medical
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Lecture Number	Topic
18	lysosomes function - II
19.	Mitochondria :-> Definition, occurrence, shape, size & number, ultrastructure
20.	mitochondrial enzymes, mitochondria as semi Autonomous organelle
21	Biogenesis of mitochondria
22.	Microtubules :- Discovery, occurrence, ultrastructure
23.	Functions of microtubules. Microfilament :- discovery, occurrence, ultrastructure
24.	Functions of microfilament - I
25.	Functions of microfilament - II
26	Centriole - Discovery, occurrence, shape size and number & ultrastructure
27.	Function of centriole and Basal bodies ultrastructure & Difference between Basal body & Centriole
28	Cilia - Discovery, Definition, occurrence, types of cilia, ultrastructure
29.	Functions of cilia, ciliary beating, Types of ciliary beating
30	Nucleus :- Discovery, occurrence, position, number, ultrastructure
31	Functions of Nucleus
32	Nucleolus :- Discovery, position, size, ultrastructure, function
33	Nucleoplasm, Nuclear chromatin & Functions of Nuclear chromatin
34	Chromosome :- Introduction, Discovery, number of chromosomes, extra chromosome

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SARASWATI MAHILA MAHAVIDHYALAYA, PALWAL

Class: B.Sc 1st yr Med
 Subject: Cell Biology (zoology)

LESSON-PLAN

Semester: ODD/EVEN
 Session: 2020-21

Lecture Number	Topic
35	Shape of chromosome, karyotype & Idiograms Chemical composition
36	Structure of chromosome
37	Nucleosomes
38	Giant chromosomes :- Polytene chromosome
39	Lambbrush chromosomes, significance
40	Cell Reproduction :- mitosis, recombination Defination, cell cycle,
41	mitosis - Phases of mitosis
42	significance of mitosis, types, control of mitosis
43	Meiosis :- Defination, Meiosis-I mechanism
44	meiosis-II mechanism
45	significance of meiosis, types of meiosis
46	Cancer Biology :- Defination, Etiology Types of cancer
47	Therapy of cancer, some important types of cancer
48	preventive measures, theories of origin of cancer
49	cellular basis of immunity :- Antigens, Antibodies
50	Antigen Antibody interaction, types of immunity
51	cells of Immune system, types of Immune system.

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