

# SARASWATI MAHILA MAHAVIDHYALAYA, PALWAL

## LESSON-PLAN

Class: BSc 2<sup>nd</sup> Yr Med

Semester: ODD/EVEN

Subject: Mammalian physiology-1  
(zoology)

Session: 2020-21

Lecture Number	Topic
1	Nutrition, types of nutrition
2	Digestion & Types of digestion
3	Types of feeding mechanisms
4	Digestion of carbohydrates & proteins
5	Digestion of fats & nucleic acids
6	Biological importance of Bile, mucus & Absorption of nutrients
7	Absorption of carbohydrates & Amino acids
8	Absorption of fats, cholesterol & other substances
9	Assimilation & Control of secretions of digestive juices
10	Characteristics of muscles
11	striated muscles
12	smooth & cardiac muscle fibers
13	Types of smooth muscles
14	Neuro muscular Junction & Physical changes in muscle contraction
15	Biochemical changes in muscle contraction
16	Energy for muscle contraction
17	Theories of muscle contraction, Isotonic contraction, Isometric contraction

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Class: B.Sc 2<sup>nd</sup> Yr Med

Subject: Mammalian physiology-I  
zoology

Semester: ODD/EVEN

Session: 2020-21

Lecture Number	Topic
18.	Single muscle Twitch, muscle fatigue oxygen Debt, lori's cycle
19.	structure of Bone, Types of Bones
20.	Growth & Reabsorption of Bones
21.	Effects of ageing on skeleton
22.	Genetic Bone disorder
23.	Introduction of proteins, chemical structure of proteins, protein specificity
24.	1 <sup>o</sup> & 2 <sup>o</sup> structure of proteins
25.	Tertiary & quaternary structure
26.	Chemical bonds involved in protein structure, physical & chemical properties
27.	classification of proteins, Biological role of proteins
28.	Introduction of enzymes
29.	properties of enzymes
30.	Mechanism of enzyme Action
31.	michaelis - menten equation
32.	factors affecting enzyme activity
33.	inhibition of enzymes
34.	Regulation of enzyme activity

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Semester: ODD/EVEN

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Lecture Number	Topic
35	Introduction of carbohydrates
36	Structure of carbohydrates
37	Mutarootation & some important derivatives of monosaccharides
38	Oligosaccharides
39	Polysaccharides
40	Some important polysaccharides
41	Introduction of Lipids
42	Formation of fats
43	Chemical properties of fats
44	Conjugated lipids - I
45	Conjugated lipids - II
46	Derived fats
47	Introduction of Buffer system, phosphate Buffer system
48	Transport through biomembranes
49	Dialysis & osmosis
50	Active Transport
51	Types of Active Transport

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