

Lesson Plan for the Session 2020-21
(Odd Semester)

Subject: - Zoology

Name of Assistant Professor: Dr. Bindu Rani

Class & Section: - B.Sc. II (Semester III)

Paper-II:- Mammalian Physiology and Biochemistry –I

AUGUST

- Introduction, Classification, Structure, function and general properties of carbohydrates
- Transport through biomembranes (Active and Passive)

SEPTEMBER

- Introduction, Classification, Structure, function and general properties of proteins
- Introduction, Classification, Structure, function and general properties of carbohydrates
- Introduction, Classification, Structure, function and general properties of Lipids

OCTOBER

- Nomenclature, Classification and mechanisms of enzyme action
- Buffers
- Nutrition: Nutritional components; Carbohydrates, fats, lipids, Vitamins and Minerals. Types of nutrition & feeding, Digestion of dietary constituents, viz. lipids, proteins, carbohydrates & nucleic acids; symbiotic digestion. Absorption of nutrients & assimilation; control of enzyme secretion

NOVEMBER

- Muscles: Types of muscles, ultra-structure of skeletal muscle. Bio-chemical and physical events during muscle contraction; single muscle twitch, tetanus, muscle fatigue muscle, tone, oxygen debt., Cori's cycle, single unit smooth muscles, their physical and functional properties
- Bones: Structure and types, classification, bone growth and resorption, effect of ageing on skeletal system and bone disorders