

LESSON PLAN

Name of Assistant Professor: Ms. Manjeet

Class: BSc 3rd Year, Semester Vth

Session 2020-2021

Subject: Zoology

Paper: Aquatic Biology (**Zoo 501L** and **Zoo 502L**)

Lesson Plan: From **November** to **February**

Week 1 November 16-21 Brief Introduction of Aquatic Biome: Fresh water Ecosystem (lakes, wetlands, stream and Rivers) UNIT TEST
Week 2 November 23-28 Estuaries, Intertidal Zones,
Week 3 November and December 30-05 Oceanic Pelagic zone, Marine Benthic Zone
Week 4 December 7-12 Coral Reefs. UNIT TEST , Classification of Lakes.
Week 5 December 14-19 Lakes as an Ecosystem, Lake Morphometry,
Week 6 December 21-26 Introduction of physiochemical properties of Lake
Week 7 December and January 28-02 Light, Temperature, Thermal Stratification
Week 08 January 04-09 Dissolved solids, Carbonates, Bicarbonates
Week 09 January 11-16 Phosphate and Nitrates, Turbidity;
Week 10 January 18-23 Dissolved gases (Oxygen, Carbon dioxide, Nutrient cycle in Lakes- Nitrogen, Sulphur and Phosphorous UNIT TEST
Week 11 January 25-30 Different Stages of Stream Development
Week 12 February 1-6 Physiochemical Environment, Adaptation of Hill Stream Fishes. UNIT TEST , Brief INTRODUCTION of Marine Biomes, Salinity and Density of Sea
Week 13 February 8-13 Water, Continental Shelf. UNIT TEST , Adaptation of deep sea organisms, Coral reef, Sea weeds. UNIT TEST

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24/10/21

Week 14 February 15-20 Brief introduction of Different types of Pollution, Control and causes of Pollution;

Week 15 February 22-27 Agricultural, Industrial sewage, Thermal and oil spills, **UNIT TEST**
Eutrophication, management of Conservation (legislation), Sewage treatment, water quality assessment- BOD and COD. **UNIT TEST**

Assignment 1

Assignment 2

Manish
4/01/21

Incharge

Principal

LESSON PLAN

Name of Assistant Professor: Ms. Manjeet

Class: BSc 2nd Year Semester IIIrd **Session** 2020-2021

Subject: Zoology

Paper: Physiology and Biochemistry (**Zoo 301L** and **Zoo 302L**)

Lesson Plan: From November to February

Week 1 November 16-21 Introduction of nervous system, Structure of neuron
Week 2 November 23-28 Resting Membrane potential, Graded Potential
Week 3 November and December 30-5 Origin of Action potential and its propagation in myelinated nerve fibres.
Week 4 December 7-12 Ultra Structure of Skeletal Muscle, Unit Test
Week 5 December 14-19 Physiology of digestion in alimentary canal,
Week 6 December 21-26 , Absorption of Carbohydrates, proteins, lipids, Pulmonary Ventilation,
Week 7 December and January 28-2. Respiratory Volume and Capacity, Transport of oxygen, Transport of carbon dioxide in blood, Structure of nephron,
Week 08 January 4-10 Mechanism of Urine formation, Counter Current Mechanism. Unit Test
Week 09 January 11-16 Composition of blood, Haemostatsis, Structure of Heart
Week 10 January 18-23 Cardiac cycle origin and conduction of cardiac impulse Unit Test, Physiology of male reproduction introduction, Hormonal Control of Spermatogenesis.
Week 11 January 25-30 Physiology of female reproductive system- introduction, Menstrual cycle in female, hormonal control of menstrual cycle.
Week 12 February 1-6 Structure and function of Pituitary, Adrenal. Unit test
Week 13 February 8-13 Structure and function of thyroid, parathyroid, Pancreas

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4/1/24

Week 15 February 22-27 Biosynthesis, Beta-Oxidation of Palmitic acid, Transamination, Deamination, Urea Cycle, Unit Test
Introduction and Mechanism of Action, Enzymes Kinetics, Inhibition and Regulation. Unit Test
Assignment 1 and Assignment 2

May 4/21
INCHARGE

PRINCIPLAL