**LESSON PLAN**

**NAME OF TEACHER : DR. VIJAYANTI JAKHAR**

**SUBJECT : ZOOLOGY**

**CLASS : B.Sc. (MEDICAL) ODD SEMESTER**

**PAPER I (B.Sc II) : LIFE & DIVERSITY OF CHORDATES- I**

**PAPER II (B.Sc II) : MAMMALIAN PHYSIOLOGY- I**

**PAPER II (B.Sc I) : LIFE AND DIVERSITY FROM COELENTRATA TO THE HELMINTHES & CELL BIOLOGY - I**

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| **MONTH** | **TOPICS OF BSc. II**  | **TOPICS OF BSc. I**  |
| **August 2022** | **PAPER- I**Introduction of Chordata, origin, evolutionary tree and classification, Subphylum Urochordata: characters, classification and affinities **PAPER- II**BONES: Structure and classification of bones, Bone growth and resorption, Bone disorders, Effect of aging on skeletal system | Nucleus |
| **September 2022** | **PAPER- II**MUSCLES : Types of muscles and Ultra structure of Skeletal muscles, Biochemical and physical Events during muscle, Single muscle twitch, Tetanus, Muscle Tone ,Oxygen debt, Cori cycle, Single unit smooth muscle and their physical and functional properties**PAPER- I**Type Study of *Herdmania*, Digestive System of *Herdmania*, Respiratory System of *Herdmania*, Excretory, Nervous System of *Herdmania*, Sense Organs of *Herdmania*, Reproductive System of *Herdmania*, Circulatory System of *Herdmania*, Revision of *Herdmania*Subphylum Cephalochordata: characters, classification and affinities, Type Study of *Branchiostoma*, Digestive System of *Branchiostoma*,Circulatory System of *Branchiostoma*, Excretory System of *Branchiostoma*, Nervous, Reproductive System of *Branchiostoma*, Revision of *Branchiostoma*Assignment Test – 1 and Assignment – 1 Submission | ChromosomesCell ReproductionCancer Biology |
| **October 2022** | **PAPER- I**Class Chondrichthyes: Characteristics, ClassificationClass Osteichthyes: Characteristics, Classification,Type study of *Labeo*, Digestive System of *Labeo*, Respiratory System of *Labeo*, Circulatory System of *Labeo*, Circulatory System of *Labeo*, Nervous System of *Labeo*, Sense Organs of *Labeo*, Urinogenital System of *Labeo*, Pisces in General, Revision of *Labeo***PAPER- II**NUTRITION : Types of nutrition and feeding Digestion of Carbohydrates , Lipids, Digestion of Proteins and Nucleic acids, Symbiotic Digestion, Absorption of nutrients and assimilation, Control of Enzyme secretion. | Cellular Basis of ImmunityGeneral Characters of coelenterate, Classification of Coelenterata, Type Study Of Obelia, Biodiversity & Economic Importance, General Characters & Classification of Platyhelminthes, Assignment Test of Paper-II and Submission of Assignment of Paper- II  |

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| **November 2022** | **PAPER- I**Class Cyclostomes: Characteristics and ecological significance.Type study of *Petromyzon*, Digestive System of *Petromyzon*, Respiratory System of *Petromyzon*, Blood vascular System of *Petromyzon*, Circulatory System of *Petromyzon*, Nervous System of *Petromyzon*, Sense Organs of *Petromyzon*, Excretory System of *Petromyzon*, Reproductive System of *Petromyzon*. Pisces in General, Revision of *Petromyzon*.**PAPER- II**INTRODUCTION TO BIOCHEMISTRY: Carbohydrates and its classification Structure, functions and General properties of Monosaccharides and DisaccharidesLIPIDS: Structure, functions and General properties of Polysaccharides, Lipids and its classification, Structure, functions and General properties of lipids, Structure, functions and general properties of lipids, Introduction to Proteins, Classification of Proteins. Structure of Proteins, Functions of ProteinsCARBOHYDRATES : Introduction to Biochemistry, Carbohydrates and its classification Structure, functions and General properties of Monosaccharides and Disaccharides, Structure, functions and General properties of Polysaccharides Assignment Test –2 and Assignment –2 SubmissionRevision of Important topicsRevision Test | Type Study of Fasciola, General Characters & Classification of Aschelminthes, Biodiversity & Economic Importance, Parasitic Helminthes. |
| **December 2022** | ENZYMES : Introduction and nomenclature of Enzymes, Classification of Enzymes, Mechanism of Enzyme action, Michaelis-Menton Equation, Inhibition of Enzymes, Regulation of Enzyme activityBIOPHYSICS: Transport through Biomembranes, Buffers, Introduction to Nutritional components Viz. Carbohydrates, Fats, Proteins, Vitamins and MineralsRevision Test |  Biodiversity & Economic Importance of Helminthes, Parasitic Helminthes. |
| **January 2023** |  Revision of Important topicsRevision Test | Revision of Important topicsRevision Test |
| **February 2023** |  |  |