

K.T. S. P. Mandal's
Hutatma Rajguru Mahavidyalaya, Rajgurunagar.

Department of Zoology

Syllabus Completion report

A.Y.-2022-2023 (Semester VI)

T.Y. B. Sc.

Course Title: Animal Physiology

Course Code: ZO-362

Month	Title	Teacher Name
Feb 2023	1.Nutrition and digestion: 1.1 Nutritional requirement & balanced diet. 1.2 Digestion and absorption of carbohydrates, proteins and lipids. 1.3 Vitamins - outline of fat soluble and water-soluble vitamins; Sources, deficiency and diseases.	SSN
March 2023	2.Respiration: 2.1 Mechanism of respiration: Regulation of ventilation in lungs, exchange of gases at respiratory surface. 2.2 Respiratory pigments in animals: Haemoglobin, Hemocyanin, Hemerythrin, Chlorocruorin. 2.3 Transport of gases : O ₂ and CO ₂ transport. 3.Circulation: 3.1 Blood: Definition and its constituents, functions of blood. 3.2 Heart: Structure of human heart, Pace maker, Cardiac Cycle. 3.3 Origin and conduction of heart beat.	SSN
April 2023	4. Excretion: 4.1 Structure of Uriniferous tubule. 4.2 Mechanism of urine formation. 4.3 Normal and abnormal constituents of urine, Elementary idea of dialysis.	SSN
April 2023	5.Muscles: 5.1 Structure of smooth, skeletal and cardiac muscles. 5.2 Mechanism of muscle contraction by Sliding filament theory.	SSN
May 2023	6.Reproduction and Endocrine Glands: 6.1 Physiology of male reproduction, hormonal control of spermatogenesis. 6.2 Physiology of female reproduction, hormonal control of menstrual cycle. Structure and functions of pituitary, thyroid, parathyroid, pancreas and adrenal glands.	SSN

As per mention above 90% syllabus is completed and remaining will be complete in Last Week of May.



T.Y.B.Sc

Course Title: Evolutionary Biology

Course Code: ZO 366

Semester: VI

Month	Title		Teacher Name
Feb 2023	1.Introduction: 1.1 Concept of Evolution. 1.2 Origin of life. 1.3 Origin of eukaryotic cell (Origin of mitochondria, plastids & symbionts). 2. Evidences of Evolution: 2.1 Analogy and Homology. 2.2 Embryological Evidences of Evolution. 2.3 Evolutionary & Paleontological Evidences.		SSN
March 2023	3. Historical Review of Evolutionary Concept: 3.1 Theories of Evolution. 3.2 Lamarckism. 3.3 Darwinism and Neo Darwinism. 3.4 Mutation Theory. 3.5 Modern Synthetic theory. 4. Sources of Variations: 4.1 Variation and Mutations.		SSN
March 2023	5. Isolation		SSN
April 2023	6.Speciation: 6.1 Types of speciation (Allopatric & Sympatric). 6.2 Mechanism of speciation. 6.3 Patterns of speciation. 6.4 Factors influencing speciation.		SSN
April 2023	7.Population Genetics: 7.1 Hardy-Weinberg Law & Genetic Drift. 7.2 Types of Natural Selection.		SSN
April 2022	8.Origin of Man: 8.1 Evolution of Man (Evolution of anthropoids including man) - Kenyapithecus to Homo sapiens.		SSN
May 2023	9.Zoogeographical Realms With reference to fauna:		SSN
May 2023	10.Extinctions: 10.1 Extinction - An Overview.		SSN

As per mention above 90% syllabus is completed and remaining will be complete in Last Week of May.