POST GRADUATE GOVERNMENT COLLEGE FOR GIRLS

SECTOR-42, CHANDIGARH

Teaching Plan Even Semester (UG)

Session (2022-2023)

Class: B.Sc II nd Yr, B.Sc IIIrd Yr. Name of the Teacher: Dr. Rashmi Kohli Subject: Zoology Practical :118 Zoology Lab

Paper : 2 nd yr; Paper A, B Room No : 126 3rd yr. : Paper A

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| **S. No** | **Dates** | **Topics to be covered** |
| Week 1 | 16/01/2023 –  21/01/2023 | B.Sc 2nd- Uromastix; Introduction, digestive system B.Sc 3rd- Mendelian laws |
| Week 2 | 23/01/2023-  28/01/2023 | B.Sc 2nd- Uromastix; Respiratory system, Circulatory system, arterial, venous system  B.Sc 3rd- Mendelian laws and ratios |
| Week 3 | 30/01/2023-  04/02/2023 | B.Sc 2nd- Uromastix; Reproductive, nervous and sense organs. B.Sc 3rd- linkage |
| Week 4 | 06/02/2023-  11/02/2023 | B.Sc 2nd- Lipid metabolism ; beta oxidation B.Sc 3rd- linkage |
| Week 5 | 13/02/2023-  17/02/2023 | B.Sc 2nd- Lipid metabolism ; fate of glycerol and gluconeogenesis  B.Sc 3rd- gene interactions |
| Week 6 | 20/02/2023-  25/02/2023 | B.Sc 2nd- Lipid metabolism ; ketosis, interaction of carbohydrates and lipids  B.Sc 3rd- multiple alleles, plieotropy |
| Week 7 | 27/02/2023-  04/03/2023 | B.Sc 2nd- Protein metabolism: oxidative deamination, transamination, decarboxylation  B.Sc 3rd- multiple factors, crossing over |
| Week 8 | 06/03/2023-  11/03/2023 | B.Sc 2nd- Protein metabolism:Ornithinine cycle, hydrolysis of proteins  B.Sc 3rd- sex linked inheritance |
| Week 9 | 13/03/2023-  18/03/2023 | B.Sc 2nd- Aves: introduction, digestive, respiratory system B.Sc 3rd- replication, transcription, genetic code |
| Week 10 | 20/03/2023-  25/03/2023 | B.Sc 2nd- Aves: circulatory, nervous, sense organs B.Sc 3rd- Extranuclear inheritance, recombination |
| Week 11 | 27/03/2023-  01/04/2023 | B.Sc 2nd- Mammals: digestive, respiratory, circulatory systems, nervous sense organs  B.Sc 3rd- mutations |
| Week 12 | 03/04/2023-  08/04/2023 | B.Sc 2nd- Excretory system B.Sc 3rd- gene regulation |

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| Week 13 | 10/04/2023-  15/04/2023 | B.Sc 2nd- Muscular system B.Sc 3rd Population genetics |
| Week 14 | 17/04/2023-  21/04/2023 | B.Sc 2nd- Nervous system  B.Sc 3rd : Recombinant genetics |
| Week 15 | 24/04/2023-  29/04/2023 | B.Sc 2nd- Endocrine system  B.Sc 3rd : Conjugation, transformation, transduction |

**Post-Graduate Govt. College for Girls, Sector- 42, Chandigarh**

**Zoology Department**

Teaching Planner for Even Semester (Session: 2022-23)

Class: B.Sc.- I (Semester 1st) Name of the Teacher: Dr. SANJAY KUMAR JHA Subject: ZOOLOGY Paper: (Paper A+B)

THEORY: Room No. - 126 PRATICAL: Room No. - 118 (Zoology Lab.)

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| **S. No.** | **DATES** | **TOPICS TO BE COVERED** |
| Week-1 | 16/01/2023 – 21/01/2023 | Introduction to higher invertebrates and study of Phylum Arthropoda and their classification. |
| Week-2 | 23/01/2023 – 28/01/2023 | Type study of *Periplaneta Americana* (The Cockroach). |
| Week-3 | 30/01/2023 – 04/02/2023 | Study of Life Cycle of Mosquitoes (Anopheles and Culex) and Study of various types of Social Insects. |
| Week-4 | 06/02/2023 – 11/02/2023 | Type study of *Palamneus* (Prawn) in detail. |
| Week-5 | 13/02/2023 – 17/02/2023 | Introduction to Phylum Mollusca and their classification & Type study of *Pila globosa* (Apple Snail). |
| Week-6 | 20/02/2023 – 25/02/2023 | Type study of *Pila globosa* (Apple Snail) contd. & Classification of Phylum Mollusca. |
| Week-7 | 27/02/2023 – 04/03/2023 | Introduction to Phylum Echinodermata & Type study of  *Asterias* (The Star fish). |
| Week-8 | 06/03/2023 – 11/03/2023 | Type study of *Asteria rubens* (contd.) & Classification of Phylum Echinodermata; Introduction to Phylum Hemichordata Type study of *Balanoglossus*. |
| Week-9 | 13/03/2023 – 18/03/2023 | Introduction to Ecology and its various applied branches, Subdivisions and Scope of Ecology. |
| Week-10 | 20/03/2023 – 25/03/2023 | Components of ecological energetics; Food-web; Introduction to major Ecosystems of the world. |
| Week-11 | 27/03/2023 – 01/04/2023 | Temperature, Light and Soil as Ecological factors; Biogeochemical Cycles and Concept of Limiting factors. |

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| Week-12 | 03/04/2023 – 08/04/2023 | Morphological, Physiological and Behavioural adaptations in  animals in different habitats; Characteristics and Regulation of Population. |
| Week-13 | 10/04/2023 – 15/04/2023 | Type of biological interactions among various Organisms (competition, predation, parasitism, commensalism,  ammensalism & mutualism); Characteristics of Ecological Succession & Ecological Niche. |
| Week-14 | 17/04/2023 – 21/04/2023 | Renewable and Non-renewable natural resources and their conservations; Causes, impact and control of environmental Pollution (Air, Water, Land, Noise); National Park and Sanctuaries, IUCN Red list, Project (Tiger & Crocodile), Wildlife Protection Act., 1972 (Hunting and Trade). |
| Week-15 | 24/04/2023 – 29/04/2023 | Revision of all Chapters. |

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Class: B.Sc.- III Name of the Teacher: Dr. SANJAY KUMAR JHA

Subject: ZOOLOGY Paper: B.Sc.- III (Paper- B; Option-iii)

THEORY: Room No. - 126 PRATICAL: Room No. - 118 (Zoology Lab.)

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| **S. No.** | **DATES** | **TOPICS TO BE COVERED** |
| Week-1 | 16/01/2023 – 21/01/2023 | Fishing Gears (its classification according to the habitats in which they are being used), Electrical Fishing. |
| Week-2 | 23/01/2023 – 28/01/2023 | Fishing Gears (its classification according to the habitats in which they are being used), Electrical Fishing (contd.). |
| Week-3 | 30/01/2023 – 04/02/2023 | Fish Diseases, their types, agents and control measures. |
| Week-4 | 06/02/2023 – 11/02/2023 | Culture Systems (Monoculture and Polyculture). |
| Week-5 | 13/02/2023 – 17/02/2023 | Integrated Fish Farming (Duck-cum-fish, Dairy-cum-fish and Poultry-cum-fish) farming methods. |
| Week-6 | 20/02/2023 – 25/02/2023 | Pearls culture in India (Species used, implantation procedures, water quality requirements and its economics). |
| Week-7 | 27/02/2023 – 04/03/2023 | Fish-seed resources and its transport mechanism. |

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| Week-8 | 06/03/2023 – 11/03/2023 | Freshwater Prawn Culture and its culture technique. |
| Week-9 | 13/03/2023 – 18/03/2023 | Cold water fisheries – Mahseer and Trout fisheries. |
| Week-10 | 20/03/2023 – 25/03/2023 | Various types of Fish by-products and its usage. |
| Week-11 | 27/03/2023 – 01/04/2023 | Fish marketing techniques and methodology. |
| Week-12 | 03/04/2023 – 08/04/2023 | Fish preservation – Principal of fish preservation and curing by drying Salting and Smoking techniques. |
| Week-13 | 10/04/2023 – 15/04/2023 | Preservation by Chilling and freezing of fish, Canning of fish and fish products. |
| Week-14 | 17/04/2023 – 21/04/2023 | Fish Spoilage by chemical, mechanical and microbial changes and Rigor Mortis phase and its significance in fishery  industry. |
| Week-15 | 24/04/2023 – 29/04/2023 | Revision of all Chapters. |