

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

Teaching Plan (Odd Semester) Session: 2022-23

Class: B.Sc.- I (Semester 1st)

Name of the Teacher: Dr. SANJAY KUMAR JHA

Subject: ZOOLOGY

Paper: (Paper A+B)

Room No. - 126 (for Theory) & Zoology Lab. (for Practical)

S. No.	DATES	TOPICS TO BE COVERED
Week-1	16-08-2022 to 20-08-2022	No classes due to Admission process going on.
Week-2	22-08-2022 to 27-08-2022	No classes have been started because Student's group not formed.
Week-3	29-08-2022 to 03-09-2022	Introduction to Invertebrates, various Phylum and representative organisms along with their characteristic features.
Week-4	05-09-2022 to 10-09-2022	Introduction to Phylum Platyhelminthes. General type study of <i>Fasciola hepatica</i> (the liver fluke).
Week-5	12-09-2022 to 17-09-2022	General type study of <i>Taenia solium</i> (the pork tape worm). Introduction to Phylum Protozoa. General types study of <i>Amoeba proteus</i> .
Week-6	19-09-2022 to 24-09-2022	General type study of <i>Paramecium caudatum</i> . General type study of <i>Plasmodium vivax</i> .
Week-7	26-09-2022 to 01-10-2022	Introduction to Phylum Porifera and General type study of <i>Scypha</i> .
Week-8	03-10-2022 to 08-10-2022	Introduction to Phylum Coelenterata and General type study of <i>Obelia</i> .
Week-9	10-10-2022 to 15-10-2022	Introduction to Phylum Aschelminthes and General type study of <i>Ascaris lumbricoides</i> (the roundworm).
Week-10	17-10-2022 to 22-10-2022	Introduction to Phylum Annelida and General type study of <i>Pheretima posthuma</i> (the earthworm).
Week-11	25-10-2022 to 27-10-2022	Introduction to Microscopy (Light and Electron Microscopes); Various types of Staining techniques.
Mid Semester Exam (28th October 2021 - 4th November 2021)		
Week-12	5-11-2022	Introduction to Cell Biology and Various types of Cell Organelles. Study of Cell Membrane, Fluid Mosaic Model concept.

Week-13	07-11-2022 to 12-11-2022	Study of Mitochondria and its functions as Power House of the cell; Study of Endoplasmic Reticulum and their types and various functions; Study of Golgi Complex, its components and functions.
Week-14	14-11-2022 to 19-11-2022	Study of Lysosomes and Ribosomes and their types and various functions; Study of Nucleus, Nucleosomes, its structure and functions.
Week-15	21-11-2022 to 26-11-2022	Study of Cancer cells, Oncogenes and its various properties functions; Study of Immune System and the various types of cells involved in providing immunity; Antigens and Antibodies, Immunoglobulins and its types, functions and properties of Immunity.

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

Teaching Plan (Odd Semester) Session: 2022-23

Class: B.Sc.- III

Name of the Teacher: Dr. SANJAY KUMAR JHA

Subject: ZOOLOGY

Paper: B.Sc.- III (Paper- B)

Room No.- 126 (for Theory) & Zoology Lab. (for Practical)

S. No.	DATES	TOPICS TO BE COVERED
Week-1	13-08-2022	B.Sc.- III: Introduction to Inland Fisheries & Aquaculture.
Week-2	16-08-2022 to 20-08-2022	B.Sc.- III: Concept of Aquaculture in Culture & Capture fishery.
Week-3	22-08-2022 to 27-08-2022	B.Sc.- III: Extensive, Intensive & Semi-Intensive Aquaculture, Pen culture and Cage culture.
Week-4	29-08-2022 to 03-09-2022	B.Sc.- III: Various components of Aquaculture.
Week-5	05-09-2022 to 10-09-2022	B.Sc.- III: Morphology of some typical fishes (Catla, Catfish, Eel & Perch).
Week-6	12-09-2022 to 17-09-2022	B.Sc.- III: Induced Breeding Technique.
Week-7	19-09-2022 to 24-09-2022	B.Sc.- III: Characters of various Culturable fishes – IMCs, Saltwater fishes, Exotic fishes and Air-breathing fishes.
Week-8	26-09-2022 to 01-10-2022	B.Sc.- III: Bionomics of <i>Labeo rohita</i> , <i>Catla catla</i> , <i>Cirrhinus mrigala</i> and <i>Wallago attu</i> .
Week-9	03-10-2022 to 08-10-2022	B.Sc.- III: Structure of mouth of different fishes in relation to their feeding habits.
Week-10	10-10-2022 to 15-10-2022	B.Sc.- III: Food value of a fish (Vitamins, Amino acids, and Minerals).
Week-11	17-10-2022 to 22-10-2022	B.Sc.- III: Exotic fishes- History, Introduction & Morphology.
Week-12	25-10-2022 to 27-10-2022	B.Sc.- III: Exotic fishes- Their role in fish culture and various impact on native fish fauna.

Mid Semester Exam (28st October 2021 - 4th November 2021)

Week-13	5-11-2022	B.Sc.- III: Pond Culture: Construction of pond and Types of pond.
Week-14	07-11-2022 to 12-11-2022	B.Sc.- III: Pond Culture: Hydrological factors of water and soil of a fish pond, fertilization of pond and its maintenance.
Week-15	14-11-2022 to 19-11-2022	B.Sc.- III: Aquatic weeds and their control (both biological and chemical).
Week-16	21-11-2022 to 25-11-2022	Revision in both Classes/ Completion of remaining topics....!

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

Teaching Plan (Odd Semester) Session: 2022-23

Class: B.Sc.- II (Semester 3rd)

Name of the Teacher: Dr. Rashmi Kohli

Subject: ZOOLOGY

Paper:(Paper A+B)

Room No. - 126 (for Theory) & Zoology Lab. (for Practical)

S. No.	DATES	TOPICS TO BE COVERED
Week-1	16-08-2022 to 20-08-2022	No classes due to Admission process going on.
Week-2	22-08-2022 to 27-08-2022	No classes have been started because Students dint turn up.
Week-3	29-08-2022 to 03-09-2022	Introduction to Chordates, Basic characters of chordates, parental care, migration
Week-4	05-09-2022 to 10-09-2022	Introduction to Phylum Urochordata, different systems of Herdmania.
Week-5	12-09-2022 to 17-09-2022	Herdmania continued. Cyclostomes- introduction. Paper B- Introduction to Biochemistry
Week-6	19-09-2022 to 24-09-2022	Carbohydrates- their functions, structure and classification.
Week-7	26-09-2022 to 01-10-2022	Proteins- their functions, structure and classification.
Week-8	03-10-2022 to 08-10-2022	Fats- their functions, structure and classification.
Week-9	10-10-2022 to 15-10-2022	Introduction to Phylum Cephalochordata, different systems.
Week-10	17-10-2022 to 22-10-2022	Pisces- Introduction, different systems.
Week-11	25-10-2022 to 27-10-2022	Amphibians- Introduction, different systems.
Mid Semester Exam (28st October 2021 - 4th November 2021)		
Week-12	5-11-2022	Enzymes and carbohydrate metabolism.

Week-13	07-11-2022 to 12-11-2022	Digestive system, Respiratory systems.
Week-14	14-11-2022 to 19-11-2022	Circulatory system.
Week-15	21-11-2022 to 26-11-2022	Concept and evidences and theories of Evolution.

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

Teaching Plan (Odd Semester) Session: 2022-23

Class: B.Sc.- III (Semester 5th)

Name of the Teacher: Dr. Rashmi Kohli

Subject: ZOOLOGY

Paper:(Paper A)

Room No. - 126 (for Theory) & Zoology Lab. (for Practical)

S. No.	DATES	TOPICS TO BE COVERED
Week-1	16-08-2022 to 20-08-2022	No classes due to Admission process going on.
Week-2	22-08-2022 to 27-08-2022	Introduction to developmental Biology
Week-3	29-08-2022 to 03-09-2022	Gametogenesis-Spermatogenesis, role of hormones in gametogenesis
Week-4	05-09-2022 to 10-09-2022	Oogenesis, vitellogenesis
Week-5	12-09-2022 to 17-09-2022	Egg membranes, polarity of egg
Week-6	19-09-2022 to 24-09-2022	Fertilization
Week-7	26-09-2022 to 01-10-2022	Parthenogenesis
Week-8	03-10-2022 to 08-10-2022	Cleavage patterns, Blastula
Week-9	10-10-2022 to 15-10-2022	Development upto germ layers- Herdmania
Week-10	17-10-2022 to 22-10-2022	Development upto germ layers- Amphioxus
Week-11	25-10-2022 to 27-10-2022	Development upto germ layers- frog
Mid Semester Exam (28st October 2021 - 4th November 2021)		
Week-12	5-11-2022	Development upto germ layers- Chick

Week-13	07-11-2022 to 12-11-2022	Development upto germ layers- Rabbit
Week-14	14-11-2022 to 19-11-2022	Induction, cell to cell introduction, organizers and inducers.
Week-15	21-11-2022 to 26-11-2022	Foetal membranes, types of placenta, metamorphosis of Herdmania, Frog