

**Km. Mayawati Govt. Girls P.G. College, Badalpur, G.B. Nagar**  
**Dept of Zoology: III<sup>rd</sup> Semester: Specializations-Cytology and cytogenetics**  
**Assignments: M.Sc.-III<sup>rd</sup> July 2023- Dec-2023**

**Instructions for assignments**

- Mark of Each Assignment: 5 (Deduction of Marks: 1 mark deducted for Late Submission and 1 for late personation.)
- Upload your assignments and project before due date on google classroom on <https://classroom.google.com/c/NjE5NjgxNDg5NTI5?cjc=t3eof7m> (Class code- t3eof7m)
- All student presentations were recorded online and uploaded on the college YouTube account.
- Presentation mode (online/offline) will be updated before the presentation date.
- Everyone emails your assignments to concerned teacher email – Prof. (Dr.) Dinesh C. Sharma ([zoologyhod.kmggpgc@gmail.com](mailto:zoologyhod.kmggpgc@gmail.com)) Dr. Abhishek Jaiswal ([zoologyhod2.kmggpgc@gmail.com](mailto:zoologyhod2.kmggpgc@gmail.com)) Smt. Neetu Singh ([zoologyhod1.kmggpgc@gmail.com](mailto:zoologyhod1.kmggpgc@gmail.com))
- Submit your project title upto 30 September 2023 to Dr. Prof D.C. Sharma, He will allot Project supervisor.
- Submit your recorded presentation To Dr. Abhishek Jaiswal for upload on YouTube.
- The teacher will revert your evaluated assignments and internals by email, you can check and raise your point of view (if any) within one week, after that marks will be uploaded.
- Tentative date of internals: last week of September 2023
- The presentation time will be informed by an evaluator, and it can be online /offline.
- Students participated and successfully completed “Women Entrepreneurship Development Programme-WEDP (18 days).” Are exempted from second assignment. Students who did not submit certificate of WEDP certificate will submit their second assignment and contact HOD for second topic of the assignment on 5 September 2023.

Class Roll No		<b>COURSE IX: Chordata</b>			<b>Course X : Developmental Biology</b>			<b>Course XI : Environmental Biology</b>			<b>Course XII : Animal Behavior</b>		
		<i>Assignment &amp; Presentation</i>			<i>Assignment &amp; Presentation</i>			<i>Assignment &amp; Presentation</i>			<i>Assignment &amp; Presentation</i>		
	Evaluator→	<i>Mr. Abhishek Jaiswal</i>			<i>Prof. Dinesh C. Sharma</i>			<i>Smt. Neetu Singh</i>			<i>Mr. Abhishek Jaiswal</i>		
	Name of student	Topic	Submission Last date	Presentation last Date	Topic	Submission Last date	Presentation last Date	Topic	Submission Last date	Presentation last Date	Topic	Submission Last date	Presentation last Date
1	AKANSHA TYAGI	Origin & Evolution of Chordate	5 Sep 23	12 Sep 23	History background and theories of development	10 Sep 23	19 Sep 23	Physical environment	18 Sep 23	26 Sep 23	Social behaviour advantages of groupings, development, social organization in primates	25 Sep 23	30 Sep 23
2	AKHU NAGAR	General Organization & Affinities of Larvacea	5 Sep 23	12 Sep 23	Parthenogenesis	10 Sep 23	19 Sep 23	biotic environment	18 Sep 23	26 Sep 23	Social behaviour advantages of groupings, development, social organization in insects	25 Sep 23	30 Sep 23
3	AKSHITA MALIK	General Organization & Affinities of Thaliacea	5 Sep 23	12 Sep 23	Basic concepts of development	10 Sep 23	19 Sep 23	biotic and abiotic interactions	18 Sep 23	26 Sep 23	Social structures, social dominance, domestication	25 Sep 23	30 Sep 23
4	ANKITA	General Organization & Affinities of Cephalochordate	5 Sep 23	12 Sep 23	genomic equivalence and the cytoplasmic determinants	10 Sep 23	19 Sep 23	Concept of habitat and niche; niche width and overlap	18 Sep 23	26 Sep 23	Endocrine secretions, neuroendocrine control mechanism in certain behavioural patterns	25 Sep 23	30 Sep 23
5	ANUSHKA	Introduction, Origin and Evolution of Vertebrates	5 Sep 23	12 Sep 23	imprinting	10 Sep 23	19 Sep 23	fundamental and realized niche; resource partitioning; character displacement	18 Sep 23	26 Sep 23	Neuroendocrine control of behaviour	25 Sep 23	30 Sep 23
6	ANUSHKA SHARMA	General and Comparative Account of Integumentary System	5 Sep 23	12 Sep 23	mutants and transgenics in analysis of development	10 Sep 23	19 Sep 23	Major terrestrial biomes; theory of island biogeography	18 Sep 23	26 Sep 23	Introduction, definition, classification and role of hormones behavioural patterns	25 Sep 23	30 Sep 23

7	HIMANSHI CHAUHAN	General and Comparative Account of Urinogenital System	5 Sep 23	12 Sep 23	Process of Spermatogenesis and spermiogenesis	10 Sep 23	19 Sep 23	biogeographical zones of India	18 Sep 23	26 Sep 23	Pheromones and behaviour	25 Sep 23	30 Sep 23
8	JYOTI	General Characters, Special Characters, General Organization and Affinities of Obstracoderm	5 Sep 23	12 Sep 23	Process of oogenesis	10 Sep 23	19 Sep 23	Characteristics of a population; population growth curves; population regulation	18 Sep 23	26 Sep 23	hormones in relation to different behavioural patterns	25 Sep 23	30 Sep 23
9	KOMAL NAGAR	General Characters, Special Characters, General Organization and Affinities of Coelacanthiformes	5 Sep 23	12 Sep 23	Process of fertilization	10 Sep 23	19 Sep 23	life history strategies ( <i>r</i> and <i>K</i> selection)	18 Sep 23	26 Sep 23	Neural structures, general pattern of nervous system in animals	25 Sep 23	30 Sep 23
10	MONIKA GAUTAM	General Characters, Special Characters of Amphibia	5 Sep 23	12 Sep 23	Process of gastrulation	10 Sep 23	19 Sep 23	concept of metapopulation – demes and dispersal, interdemec extinctions, age structured populations	18 Sep 23	26 Sep 23	Biological rhythms- orientation and navigation	25 Sep 23	30 Sep 23
11	RAINU	Parental Care of Amphibia	5 Sep 23	12 Sep 23	invegination, involution, infiltration, delamination	10 Sep 23	19 Sep 23	Species interactions: Types of interactions, interspecific competition, herbivory, carnivory, pollination, symbiosis	18 Sep 23	26 Sep 23	Biological rhythms- migration	25 Sep 23	30 Sep 23
12	RITIKA VEDI	Neoteny and Paedogenesis	5 Sep 23	12 Sep 23	mechanisms, accessory processes of gastrulation concrescence and convergence	10 Sep 23	19 Sep 23	Nature of communities; community structure and attributes	18 Sep 23	26 Sep 23	biological clocks	25 Sep 23	30 Sep 23
13	SALONI TYAGI	General Characters, Special Characters, Types & Peculiarities of Dinosaurs	5 Sep 23	12 Sep 23	metamorphosis in insects and amphibians	10 Sep 23	19 Sep 23	levels of species diversity and its measurement; edges and ecotones	18 Sep 23	26 Sep 23	Circadian and circannual rhythms	25 Sep 23	30 Sep 23
14	SHAILLY KHARI	General Organization of Chelonia	5 Sep 23	12 Sep 23	biochemical and morphological metamorphic changes	10 Sep 23	19 Sep 23	Ecosystem: Structure and function	18 Sep 23	26 Sep 23	Environmental perceptions- chemical, olfactory, auditory and visual	25 Sep 23	30 Sep 23
15	SONIKA PANDEY	General Characters, Special Characters of Birds	5 Sep 23	12 Sep 23	hormonal control of metamorphosis	10 Sep 23	19 Sep 23	Structure and function; energy flow and mineral cycling (CNP); primary production and decomposition	18 Sep 23	26 Sep 23	Environmental perceptions- Mechanical, electrical	25 Sep 23	30 Sep 23
16	SONIYA BHATI	Flight Adaptation	5 Sep 23	12 Sep 23	Regenerative potentials in different animal groups	10 Sep 23	19 Sep 23	structure and function of some Indian ecosystems: terrestrial (forest, grassland)	18 Sep 23	26 Sep 23	the forms of signals, communication in animals as language	25 Sep 23	30 Sep 23
17	SRISHTI SINGH	Migration in Birds	5 Sep 23	12 Sep 23	mechanism of regeneration in amphibian and <i>planeria</i>	10 Sep 23	19 Sep 23	structure and function of some Indian ecosystems: aquatic (fresh water, marine, eustarine)	18 Sep 23	26 Sep 23	Study of communication, messages and their meanings	25 Sep 23	30 Sep 23
18	SURUCHI NAGAR	Territorial Behaviour of Birds	5 Sep 23	12 Sep 23	Introduction, consequences of aging, causes of aging, control of aging through genes and aging of cells <i>in vitro</i> , Carrel's immortal cells.	10 Sep 23	19 Sep 23	Types; mechanisms; changes involved in succession; concept of climax	18 Sep 23	26 Sep 23	neural basis of learning, memory in animals	25 Sep 23	30 Sep 23
19	TANNU SINGH	General and Special Characters Of Mammals, Organization & Affinities of Prototheria.	5 Sep 23	12 Sep 23	Causes of abnormal development, therapeutic drugs as teratogens, drug testing, experimental teratology	10 Sep 23	19 Sep 23	Environmental pollution; global environmental change; biodiversity status, monitoring and documentation	18 Sep 23	26 Sep 23	Definition, forms, development and mechanism of learning	25 Sep 23	30 Sep 23
20	TANU	Affinities of Larvacea	5 Sep 23	12 Sep 23	Etiology, growth and differentiation of tumor cells	10 Sep 23	19 Sep 23	Principles of conservation, major approaches to management	18 Sep 23	26 Sep 23	Social structures and social dominance	25 Sep 23	30 Sep 23
21	TWINKAL SHARMA	Affinities of Thaliacea	5 Sep 23	12 Sep 23	Cell growth and oncogenesis	10 Sep 23	19 Sep 23	Biosphere reserves	18 Sep 23	26 Sep 23	Advantages of groupings, development, social organization in insects	25 Sep 23	30 Sep 23
22	VAISHALI SHARMA	Affinities of Cephalochordate	5 Sep 23	12 Sep 23	Growth and invsiveness of placenta	10 Sep 23	19 Sep 23	Project Tiger	18 Sep 23	26 Sep 23	Advantages of groupings, development, social organization in primates	25 Sep 23	30 Sep 23

**Prof. (Dr.) Divya Nath**  
Principal

**Prof. (Dr.) Dinesh C. Sharma**  
HOD-Zoology