

**Km. Mayawati Govt. Girls P.G. College, Badalpur, G.B. Nagar**

**Department of Zoology**

**Assignments: M.Sc.-II<sup>nd</sup> March 2022- May-2022**

**Presentation Time: 2.30 PM**

Instructions for assignments

- Mark of Each Assignment: 5 (Deduction of Marks: 1 mark deducted for Late Submission and 1 for late personation.)
- All student presentation recorded online and uploaded on college YouTube account. Project and Youtube-5 Marks
- Presentation mode (online/offline) will be update before presentation date depending upon COVID19 situations.
- Upload your assignment to google classroom within due date also YouTube link of your video (<https://classroom.google.com/c/NDgyNzM0NTg5OTM3?cjc=alsnjq>)
- Submit your project to Dr. Azmi Naqvi, Dr. Naqvi allotted Project supervisor with consultation of HOD and faculty upto 15<sup>th</sup> April 2022.
- **Project work will be published as research paper in IV<sup>th</sup> semester.**
- Send your YouTube link to Dr. Azad Alam Siddique . Dr. Azad will compile link of all students and submit it to HOD by 15<sup>th</sup> May 2022.
- 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: **15<sup>th</sup> April to 15<sup>th</sup> May 2022.** Final dates will share you in group.

Roll. No.	Name of Students	Course V : Code: H-2062: Biostatistics and Bioinformatics			Course VI : Code: H-2063: Genetics			Course VII : Code: H-2064: Mammalian Physiology			Course VIII : Code: H-2065: Biochemistry			<b>Project work</b> Each student submit their Project to • Dr. Surender Kumar (Roll No-9 to 22) • Smt. Neetu Singh (Roll No-15-18) • Dr. Azad Alam Siddque (Roll No-11 to 14) • Dr. Azmi Naqvi (Roll No-6 to 10) • Miss. Sumbul Zehra (Roll No-1 to 5) by 5 May 2022	Signature of student
		Topic of assignment	Submission Last date	Presentation Date	Topic of assignment	Submission Last date	Presentation Date	Topic of assignment	Submission Last date	Presentation Date	Topic of assignment	Submission Last date	Presentation Date		
		Dr. Dinesh C. Sharma and Miss. Sumbul Zehra			Dr. Dinesh C. Sharma and Miss. Sumbul Zehra			Smt. Neetu Singh and Dr. Azmi Naqvi			Dr. Neetu Singh and Dr. Surendra Kumar				
1	ABHILASHA NAGAR	Basic concepts, Fundamentals of measurements of Biostatistics	26-3-22	1-4-22	Mendelian principles og genetics	11-4-22	15-4-22	Blood, Blood groups and functions of plasma	18-4-22	22-4-22	Structure of atoms, molecules and chemical bonds	2-5-22	6-5-22		
2	ADITI SHARMA	Various Measures of Central Tendency (Mean, Median, Mode) and their Merits & Demerits	26-3-22	1-4-22	Methods of genetic transfer	11-4-22	15-4-22	Haemopoiesis and formed elements	18-4-22	22-4-22	Composition, structure and function of carbohydrates	2-5-22	6-5-22		
3	AKANSHA	Objective of measuring variability	26-3-22	1-4-22	Bacteriophages- types, structure and morphology of T4 phage	11-4-22	15-4-22	Blood volume and blood volume regulation	18-4-22	22-4-22	Composition, structure and function of lipids	2-5-22	6-5-22		
4	AKANSHA NAGAR	Properties and Types of measure of dispersion	26-3-22	1-4-22	structural and numerical alterations of chromosomes	11-4-22	15-4-22	Haemoglobin structure and functions	18-4-22	22-4-22	Composition, structure and function of protein	2-5-22	6-5-22		

5	AMAN BHATI	Standard Deviation and its merit & demerits of	26-3-22	1-4-22	Molecular anatomy of eukaryotic chromosomes, heterochromatin and euchromatin	11-4-22	15-4-22	Immunity and type of immunoglobulins	18-4-22	22-4-22	Composition, structure and function of vitamins	2-5-22	6-5-22		
6	ANJALI	Importance, types and measures of Correlation	26-3-22	1-4-22	Polytene and Lampbrush chromosomes, sex chromosomes	11-4-22	15-4-22	Explain haemostasis with examples	18-4-22	22-4-22	Stabilizing interactions (Van der Waals, electrostatic, hydrogen bonding, hydrophobic interaction, etc.)	2-5-22	6-5-22		
7	DEEKSHA SHARMA	Measures of Regression Analysis and explain Regression of Y on X and X on Y	26-3-22	2-4-22	Concept of recombination, linkage map, cytogenetic map, physical maps and	11-4-22	16-4-22	Comparative anatomy of heart structure	18-4-22	23-4-22	Principles of biophysical chemistry (pH, buffer, reaction kinetics)	2-5-22	7-5-22		
8	JYOTI TOMAR	Testing of Hypothesis and Errors in Hypothesis Testing	26-3-22	2-4-22	Levels of genome mapping, significance of genome mapping	11-4-22	16-4-22	ECG – its principle and significance	18-4-22	23-4-22	Principles of biophysical chemistry (thermodynamics, colligative properties)	2-5-22	7-5-22		
9	KAJAL SHUKLA	Probability Distribution (Poisson, Binomial & Normal).	26-3-22	2-4-22	Gene pool and gene frequencies	11-4-22	16-4-22	Neural and chemical regulation of heart and BP	18-4-22	23-4-22	Conformation of proteins	2-5-22	7-5-22		
10	KM JYOTI	Introduction, Components of Computer, Number System, Logic Gates, Flow Chart, Comprehension of C & its programming	26-3-22	2-4-22	Hardy-weinberg law of genetic equilibrium and changes in gene frequencies	11-4-22	16-4-22	Gross neuroanatomy of the brain and spinal cord	18-4-22	23-4-22	Ramachandran plot, domains; motif and folds	2-5-22	7-5-22		
11	KM SONIYA	Introduction of Data Base Management System (DBMS)	26-3-22	2-4-22	Cell fusion and hybrids-agents and mechanism of fusion	11-4-22	16-4-22	Neural control of muscle tone and posture	18-4-22	23-4-22	Primary, secondary, tertiary and quaternary structure of protein	2-5-22	7-5-22		
12	NISHA	Basics for Biologists	26-3-22	2-4-22	Heterokaryon	11-4-22	16-4-22	Sense organs (Vision, hearing and tactile response)	18-4-22	23-4-22	Conformation of A-, B-, Z-, DNA	2-5-22	7-5-22		
13	POONAM	Primary Database, Secondary Database	26-3-22	4-4-22	Cloning and PCR	11-4-22	18-4-22	Comparison of respiration in different species, anatomical considerations	18-4-22	25-4-22	Conformation of t-RNA and micro-RNA	2-5-22	13-5-22		
14	PRAGATI	Sequence Databases (European Molecular Biology Laboratory, GenBank, DNA Data Base of Japan (DDBJ)	26-3-22	4-4-22	DNA sequencing FISH, GISH	11-4-22	18-4-22	transport of gases, exchange of gases	18-4-22	25-4-22	Metabolism of carbohydrates	2-5-22	13-5-22		
15	SAKSHI NAGAR	SWISS-PORT, Protein Information Resource, TREMBL)	26-3-22	4-4-22	DNA-fingerprinting	11-4-22	18-4-22	Neural and chemical regulation of respiration	18-4-22	25-4-22	Metabolism of lipids	2-5-22	13-5-22		

16	SHANAZ	Protein Family/Domain Databases (Prosite, Pfam & Prints)	26-3-22	4-4-22	Chromosome walking and applications of genetic engineering	11-4-22	18-4-22	Comparative physiology of excretion, kidney	18-4-22	25-4-22	Metabolism of amino acids	2-5-22	13-5-22		
17	SHIKHA BAISLA	Submitting sequence to Database and information retrieval through ENTREZ	26-3-22	4-4-22	Genetic code	11-4-22	18-4-22	urine formation, urine concentration, waste elimination	18-4-22	25-4-22	Metabolism of nucleotides	2-5-22	13-5-22		
18	SHIVANI	Collecting & Storing Sequences,	26-3-22	5-4-22	Chromosomal disorders, inborn errors of metabolism	11-4-22	19-4-22	Digestive system (Digestion, absorption, energy balance, BMR)	18-4-22	26-4-22	Metabolism of vitamins	2-5-22	14-5-22		
19	SHRISHTI	Local alignment, Global Alignment	26-3-22	5-4-22	Tay-sachs disease, albinism, phenylketonuria, lesch-nyhan syndrome	11-4-22	19-4-22	Thermoregulation	18-4-22	26-4-22	Principles of catalysis, enzymes and enzyme kinetics	2-5-22	14-5-22		
20	SHRISHTI VATS	BLAST (BLASTP, BLASTN, BLASTX, TBLASTN, TBLASTX)	26-3-22	5-4-22	Packaging of DNA as nucleosomes in eukaryotes	11-4-22	19-4-22	Stress and adaptation	18-4-22	26-4-22	Enzyme regulation and mechanism of enzyme catalysis, isozymes	2-5-22	14-5-22		
21	SONAM	Phylogenetic Prediction	26-3-22	5-4-22	Repetitive and unique DNA sequences	11-4-22	19-4-22	Endocrine glands and basic mechanism of hormone action	18-4-22	26-4-22	Glycolysis and oxidative phosphorylation	2-5-22	14-5-22		
22	VINITA	Gene Prediction & Analysis	26-3-22	5-4-22	Split genes, overlapping genes and pseudogenes	11-4-22	19-4-22	Hormones and diseases; reproductive processes, neuroendocrine regulation	18-4-22	26-4-22	Coupled reaction, group transfer, biological energy transducers	2-5-22	14-5-22		

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

**Dr. Dinesh C. Sharma**  
HOD-Zoology