

Name. _____		Printed Pages:01		
Student Admn. No.: _____				
School of Biomedical Sciences Summer Term Examination – July - August 2024 [Programme: B. Sc. (Hon.) Forensic Science] [Semester: II]				
Course Title: Advanced Biology		Max Marks: 100		
Course Code: C2UD220B		Time: 3 Hrs.		
Instructions:	1. All questions are compulsory. 2. Assume missing data suitably, if any.			
		K Level	COs	Marks
SECTION-A (15 Marks)		5 Marks each		
1.	What are Mutagens?	K1	CO1	5
2.	Explain Bentham and Hooker classification system	K2	CO2	5
3.	Describe the structure and function of Xylem tissue.	K2	CO3	5
SECTION-B (40 Marks)		10 Marks each		
4.	Describe the discovery of chromosomes and their role in inheritance.	K1	CO1	10
5.	Explain classification system of gymnosperms and its significance.	K3	CO2	10
6.	Explain the type of Mutation.	K4	CO3	10
7.	What are the different types of antibodies? Also explain antigen antibody interaction.	K4	CO4	10
SECTION-C (45 Marks)		15 Marks each		
8.	Explain the technique of blotting and also differentiate northern and southern blotting.	K3	CO3	15
9.	Describe the structure and function of salivary gland chromosomes and lampbrush chromosomes, highlighting their unique features	K5	CO4	15
10	How can growth rings in wood be used to calculate the age of a tree? Discuss the formation and significance of these rings in both temperate and tropical trees.	K6	CO5	15