

Name. _____		Printed Pages:01		
Student Admn. No.: _____				
School of Biological and Life Sciences Summer Term Examination – July - August 2024 [Programme: Bachelor of Science (Honours) in Microbiology Semester:III [Batch:]				
Course Title: Molecular Biology, Bioinstrumentation & Biotechniques		Max Marks: 100		
Course Code: B050301T		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.	Discuss the role of RFLP in molecular biology	KL2	CO2	5
2.	Define the Genetic code and how does it determine protein synthesis?	KL1	CO4	5
3.	What are introns and exons in gene expression?	KL1	CO6	5
SECTION-B (40 Marks)		10 Marks each		
4.	Illustrate the process of reverse transcription.	KL3	CO2	10
5.	Explain the Lac Z operon system.	KL4	CO3	10
6.	Describe the process of DNA damage.	KL2	CO4	10
7.	Describe the different type of Chromatography and its role.	KL4	CO5	10
SECTION-C (45 Marks)		15 Marks each		
8.	Explain the process of DNA replication.	KL6	CO4	15
9.	Illustrate the all steps of Western blotting in details.	KL5	CO5	15
10.	Explain the different type of ELISA and it role in molecular biology.	KL5	CO6	15