

Name. _____		Printed Pages:01		
Student Admn. No.: _____				
School of Biomedical Sciences Summer Term Examination- July - August 2024				
Programme: MSc Medical Biotechnology		Semester: II		Batch:
Course Title: Genomics & Proteomics			Max Marks: 100	
Course Code: Q1PP201T			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 different cloning vectors.	KL1	CO1	5
2.	Interpret the significance of ct value in RT-PCR	KL2	CO2	5
3.	What is the importance of microarray.	KL1	CO4	5
SECTION-B (40 Marks)		10 Marks each		
4.	Evaluate the different methods of DNA sequencing.	KL2	CO2	10
5.	Compare between FISH and RT-PCR.	KL4	CO3	10
6.	Demonstrate the principle and applications of 1D gel electrophoresis.	KL3	CO4	10
7.	Examine the reasons behind diabetes type 2.	KL3	CO5	10
SECTION-C (45 Marks)		15 Marks each		
8.	Compare the effects of different types of mutation.	KL4	CO4	15
9.	Explain the interaction between a bait protein and a prey protein in yeast two hybrid assay.	KL5	CO5	15
10	Interpret the steps of western blot.	KL6	CO6	15