

Name. _____		Printed Pages:01		
Student Admn. No.: _____				
<b>School of Biomedical Sciences</b> <b>Summer Term Examination- July - August 2024</b>				
<b>Programme: BSc Medical Biotechnology</b>		<b>Semester: II</b>		<b>Batch:</b>
<b>Course Title: Genomics &amp; Proteomics</b>			<b>Max Marks: 100</b>	
<b>Course Code: C2UH201T</b>			<b>Time: 3 Hrs.</b>	
<b>Instructions:</b>	1. All questions are compulsory. 2. Assume missing data suitably, if any.			
		K Level	COs	Marks
<b>SECTION-A (15 Marks)</b>		<b>5 Marks each</b>		
<b>1.</b>	Classify types of microarrays for transcriptomics.	KL1	CO1	5
<b>2.</b>	Interpret the significance of ct value in RT-PCR	KL2	CO2	5
<b>3.</b>	Analyse the necessity of isoelectric point in protein separation.	KL1	CO4	5
<b>SECTION-B (40 Marks)</b>		<b>10 Marks each</b>		
<b>4.</b>	Demonstrate the applications of fluorescent dyes in genomics techniques.	KL2	CO2	10
<b>5.</b>	Compare between FISH and RT-PCR.	KL4	CO3	10
<b>6.</b>	Demonstrate the principle and applications of 1D gel electrophoresis.	KL3	CO2	10
<b>7.</b>	Interpret the steps of western blot.	KL3	CO4	10
<b>SECTION-C (45 Marks)</b>		<b>15 Marks each</b>		
<b>8.</b>	Compare the effects of different types of mutation.	KL4	CO3	15
<b>9.</b>	Explain the interaction between a bait protein and a prey protein in yeast two hybrid assay.	KL5	CO4	15
<b>10</b>	Discuss the different types of PCR and their applications.	KL6	CO4	15