Name				Printed Pages:01		
Student Admn. No.:						
School of Basic and Applied Sciences						
Backlog Examination, June 2023						
[Programme: B.Sc. Med. Biotech] [Semester: II] [Batch: 21-24]						
Course Title: Red Biotechnology			Max Marks: 100			
Course Code: B180204T			Time: 3 Hrs.			
Instructions: 1. All questions are compulsory.						
2. Assume missing data suitably, if any.						
			K Level	COs	Marks	
1	SECTION-A (15 Marks) 5 Marks each					
1.	Explain in	e components of a brosensor on the basis of its working principle.	K1/K2	COI	5	
2.	What is the complement pathway and how it gets activated?		K1/K2	CO3	5	
3.	Elaborate how genes can be regulated at different levels.		K1/K2	CO4	5	
SECTION-B (40 Marks) 10 Marks each						
4.	What are t	he steps of performing transformation in lab?	K1/K2	CO4	10	
5.	Explain in detail the large-scale production of citric acid.		K3/K4	CO5	10	
6.	With the help of diagram explain the steps of cloning a gene.		K3/K4	CO2	10	
7.	Identify the various methods of Enzyme immobilization highlighting their importance. OR Utilizing your knowledge about SPR technology, explain how will you judge binding of a protein to other.		K3/K4	CO1	10	
SECTION-C (45 Marks) 15 Marks each						
8.	Organize t recombina	he steps involved in the development and production of insulin by using nt DNA technology.	K3/K4	CO2	15	
9.	Compare of	lifferent kinds of vaccines produced.	K5/K6	CO3	15	
10	Explain th does it diff Explain in exploited i	e sequence of events involved in expression of a gene in bacteria. How 'er in a eukaryotic system? OR details how does the lac operon work in the bacteria? How is it n cloning systems?	K5/K6	CO4	15	