

Name. _____		Printed Pages:01		
Student Admn. No.: _____				
School of Biomedical Sciences Semester End Examination (SEE), Summer Term, August 2023 [Programme: B.Sc. Medical Biotechnology] [Semester: I] [Batch: 2022-23]				
Course Title: Red Biotechnology Course Code: C2UF105T		Max Marks: 100 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.	List any five organic support material used in immobilization of enzymes?	K1	1	5
2.	Explain in brief- molecular glue and molecular scissor enzymes with suitable diagram?	K2	2	5
3.	Explain term antibodies and IgG with detailed suitable diagram?	K2	3	5
SECTION-B (40 Marks)		10 Marks each		
4.	Explain term – nucleosomes and histone with suitable diagram?	K2	4	10
5.	Inference the term mutation? Categorize three types of DNA Mutations with suitable example?	K4	5	10
6.	Construct production of citric acid with suitable flow diagram.	K3	6	10
7.	Inference working, advantages and disadvantages of biosensors?	K4	1	10
SECTION-C (45 Marks)		15 Marks each		
8.	Construct and define the techniques given by Kary Mullis? Make use of cyclic reactions involved in PCR with suitable diagram? Name their different types of PCR.	K3	2	15
9.	Explain term MHC? Construct schematic diagram of Class I and class II of MHC molecule?	K5	3	15
10	Discuss any two main methods of mutagenesis used in protein engineering? Develop the experimental approaches for protein engineering?	K6	1	15