

Name. _____ Student Admn. No.: _____		Printed Pages:01		
School of Biomedical Sciences Summer Term Examination – July - August 2024 [Programme: B.Sc Medical Biotech [Semester: V][Batch:II]				
Course Title: Industrial Bioprocess Technology Course Code: BBBMBT5003			Max Marks: 100 Time:3 Hrs.	
Instructions:	1. All questions are compulsory. 2. Assume missing data suitably, if any.			
		K Level	COs	Mark s
SECTION-A (15 Marks) 5 Marks each				
1.	Solve the methods of Industrial strain development.	K2	CO1	5
2.	Omit the methods of preservation of industrial strain.	K1	CO1	5
3.	Interpret the spontaneous and induced mutation in details.	K2	CO2	5
SECTION-B(40 Marks) 10 Marks each				
4.	Explain the reactor based on geometric configuration.	K2	CO2	10
5.	Explain reactor based on the contacting pattern between phases.	K3	CO3	10
6.	Inspect the importance of pH probe, temperature probe and other in details.	K3	CO2	10
7.	Examine the different types of impellers used in the reaction.	K4	CO3	10
SECTION-C (45 Marks) 15 Marks each				
8.	Examine the role of sparger and Impeller in details.	K4	CO3	15
9.	Discuss the Industrial Application of immobilized enzyme.	K4	CO2	15
10	Discuss the types of different process flow diagram in details.	K4	CO3	15