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Name.			

Student Admn. No.:

School of Biomedical Sciences Back Paper Examination, August 2024

[Programme: B. Sc. Medical Biotechnology] [Semester: Sem III][Batch: 2020-21]

Course Title: Industrial Microbiology Max Marks: 100

Course Code: BBBMBT3005 Time: 3 Hrs.

Instructions:

- 1. All questions are compulsory.
- 2. Assume missing data suitably, if any.

		K Level	COs	 Marks
		Level	003	IVICINS
	SECTION-A (15 Marks) 5 Marks ea	ach		
1.	Explain enzyme immobilization.	K2	CO3	5
2.	Discuss parasitism with examples.	K2	CO3	5
3.	Explain fermentation and its applications.	K2	CO2	5
	SECTION-B (40 Marks) 10 Marks ea	ich		
4.	Comment on the characteristics of mutualism and synergism.	K4	CO4	10
5.	Identify various types of bioinoculants with examples.	K4	CO1	10
6.	Discuss the technique to produce monoclonal antibodies.	K3	CO3	10
7.	Discuss the advancements and challenges of bioremediation.	K4	CO2	10
	SECTION-C (45 Marks) 15 Marks e	ach		
8.	Discuss the various techniques of downstream processes.	K5	CO2	15
9.	Evaluate the mechanism of nitrogen fixation and give examples of nitrogen fixing bacteria.	K4	CO4	15
10	Justify the role and application of biotransformation in therapeutics.	K6	CO3	15