21BT63

Sixth Semester B.E. Degree Examination, June/July 2024 **Enzyme Technology**

Time: 3 hrs.

2. Any revealing of identification, appeal to evaluator and /or equations written eg, 42+8=50, will be treated as malpractice.

Important Note: 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.

Max. Marks: 100

Note: Answer any FIVE full questions, choosing ONE full question from each module.

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Module-1			
		The state of the classification of enzyme in detail.	(10 Marks)
1	a.	What is an Enzyme? Explain the classification of what are the different sources of enzymes? Explain the strategy of purification of	enzymes.
	b.	What are the different sources of chizymes: Explain the street,	(10 Marks)
		OR	
2	a.	Discuss in brief about the advantages of enzymes in different industry.	(10 Marks)
4	b.	Explain the advantages of biocatalyst over chemical catalyst.	(10 Marks)
	υ.	Explain the day and a	
		Module-2	(10.74 1-)
3	a.	Explain Fixed incubation and Kinetic methods in detail.	(10 Marks)
J	b.	Define Immuno array. Explain the enzyme immune array techniques in detail.	(10 Marks)
	0.	A	
		OR	(10 Mayles)
4	a.	Explain the standardization and optimization methods for enzymes.	(10 Marks) (10 Marks)
•	b.	Explain the mechanism of NAD, Co – enzyme A and biotin enzymes.	(10 Marks)
Module-3			
5	a.	Define Immobilized enzymes. Explain the different techniques of immobilization	(10 Marks)
			(10 Marks)
	b.	Explain the kinetics of Immobilized enzymes.	
		OR	
		Cinconhilized enzyme in detail	(10 Marks)
6	a.	Explain the application of immobilized enzyme in detail.	(10 Marks)
	b.	Discuss Economic argument for immobilize enzyme.	
Module-4			
		Discuss the designing and construction of novel enzymes.	(10 Marks)
7	a	Explain Host guest complication chemistry.	(10 Marks)
	b	Explain Host guest complication enormally.	
		OR	
		Therapoutic enzymes with examples.	(10 Marks)
8		- 1: CDD I IDT Icongrumes in defail	(10 Marks)
	b	Explain GPD and IRT IsochEymor in assistance	
Module-5			
2) -	Fundamental significance of enzymes in diagnostics.	(10 Marks)
		Discuss the enzyme pattern in diseases like myocardial infraction.	(10 Marks)
	Į.	J. Discuss the one just part	ř
		OR	(10 34 1- 1-)
1	0	a. Explain the methods involved in production of glucose syrup.	(10 Marks)
J	LU	Explain the uses of lactase in dairy industries.	(10 Marks)

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Explain the uses of lactase in dairy industries.