

A106 2F06 (1)

18BT53

Fifth Semester B.E. Degree Examination, June/July 2024 Enzyme Technology and Biotransformation

Time: 3 hrs.

Max. Marks: 100

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

		Module-1	
1	a.	Explain the enzyme purification methods.	(10 Marks)
	b.	Discuss the use of enzymes and its classification criteria.	(10 Marks)
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		OR	
2	a.	Explain the biocatalyst over chemical catalyst.	(10 Marks)
	b.	Discuss the acid base catalysis of an enzyme.	(10 Marks)
	U.	Discuss the dela case canalysis in a second	
		Module-2	
3	a.	Explain the mechanism of action of co-enzymes (NADH/FADH).	(10 Marks)
5	b.	Briefly explain the standardization methods for enzymes.	(10 Marks)
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		OR	
4	a.	Explain the methods to study the stability of the enzymes.	(10 Marks)
-	b.	Discuss the importance of cofactors in enzymes.	(10 Marks)
	0.	Discuss the map of the control of th	
		Module-3	
5	a.	Explain the immobilization methods for enzymes.	(10 Marks)
	b.	Discuss the use of immobilized enzymes in different industries.	(10 Marks)
		OR	
6	a.	Briefly discuss the economic importance of immobilized enzymes.	(10 Marks)
	b.	Describe the role of extremophiles in PCR applications.	(10 Marks)
		Module-4	
7	a.	Explain the construction of novel enzymes.	(10 Marks)
	b.	Describe the biological importance of HMG COA reductase inhibitors.	(10 Marks)
		OR	(10 M
8	a.	Write a note on angiotensin converting enzymes ACE.	(10 Marks)
	b.	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	(10 Marks)
		Module-5	(10 Mania)
9	a.	Explain the production process of glucose syrup from starch by using enzymes.	(10 Marks)
	b.	a i i i i C i i i i i i i i i i i i i i	(10 Marks)
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OR 10 Discuss the use of anyones in diagnostics (10 Marks)			
10		Discuss the use of enzymes in diagnostics.	(10 Marks)
	b	Enzymes as markers in Cancer disease. Explain.	(10 mans)

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