10BT63

## Sixth Semester B.E. Degree Examination, Dec.2017/Jan.2018 Enzyme Technology and Biotransformation

Time: 3 hrs.

Max. Marks:100

Note: Answer FIVE full questions, selecting at least TWO questions from each part.

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		PART – A	
1	a.	What are the strategies needed for purification of enzymes?	(12 Marks)
	b.	Explain lock and key model and induced fit model.	(08 Marks)
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2	0	Discuss acid base and covalent catalysis with examples	(10 Marks)
4	a.	Explain the mechanisms of NAD and TPP with examples.	(10 Marks)
	b.	Explain the mechanisms of the and 111 with the same	
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3		Explain biological importance of	
	a.	ACE SV 65	
	b.	CK isoform	
	c.	Pseudocholinesterase	(20 Mowks)
	d.	Acetylcholinesterase	(20 Marks)
			(10 M/I)
4	a.	What are the factors affecting the stability of enzymes?	(10 Marks)
	b.	Explain the following methods:	
		i) Initial velocity stages	
		ii) Rapid-reaction techniques.	(10 Marks)
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		PART-B	
5		What are the methods used in enzyme immobilization? Write a short note on.	(12 Marks)
3	a.	Discuss the economic argument for immobilization.	(08 Marks)
	b.	Discuss the economic argument to an armount of the property of	
		Explain the design and construction of novel enzymes.	(12 Marks)
6	a.	Discuss in detail about Host-Guest complexation chemistry.	(08 Marks)
	b.	Discuss in detail about Host-Guest complexation enomistry.	
		C diagnostics and theraneutics	(10 Marks)
7	a.	Explain the importance of enzymes in diagnostics and therapeutics.	(10 Marks)
	b.	Explain ELISA and EMIT immunoassay techniques.	(10 1/14/14/14)
			(12 Marks)
8	a.	Discuss the use of proteases in food, leather and wool industries.	(08 Marks)
	b.	1 1 · land in anoduction of glucose syrins from starcit!	(00 Marks)
		Land of the state	C.F.

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

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