Max. Marks: 50

2054

B.E. (Biotechnology) Eighth Semester BIO-812: Enzyme Catalyzed Organic Synthesis

NOTE: Attempt <u>five</u> questions in all, including Question No. I which is compulsory and selecting two questions from each Unit.

Time allowed: 3 Hours

		<i>x-x-x</i>	
1.	Write briefly:		
	a)	What are the ACE inhibitors?	
	b)	What is stereroselective biocatalyst?	
	c)	Define extracellular enzyme? Give four examples	
	d)	Define enzyme activity and specific enzyme activity?	
	e)	Enzymes involved for synthesis of organic solvents, explain?	(5x2)
		<u>UNIT</u> - I	
2.	' a)	pH play important role in enzyme activity, explain?.	
	b)	"Chirality and Biological Activity"- with examples explain statement.	
3.	a)	Explain effect of substrate and an explain statement.	(4,6)
	b)	Explain effect of substrate and enzyme concentration on enzyme activity	7.
	U)	List taking advantages and disadvantages of biocatalyst with suitable exa	ample.
4.	a)	Briefly write notes on Industrial	(4,6)
	b)	Briefly write notes on Industrial applications of enzyme.	
		Discuss the different type of enzyme inhibition.	
	c)	What is the degree of enzyme inhibition? Explain substrate inhibition?	(4,3,3)
5.	Explai	n Calcium Channel Dl. 1	
5.	D. C	n Calcium-Channel Blockers and Potassium channel openers.	(10)
).	Define	the term of enzyme immobilization? What are advantages and disadvanta	ges?
	Discuss	the various methods for immobilizing enzymes.	
'	Explain	n any two:	(10)
		ntiviral compounds.	
	b) A	nticancer drug.	
		nticholesterol drug.	
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