M.Sc.(Biotechnology) CBCS Pattern Semester-II
PSBIT-105 - Paper-I : Enzymology

P. Pages : 1 Time : Three Hours

Max. Marks : 80

1.	What is enzyme immobilization? Discuss different methods of enzyme immobilization in details.		16
		OR	
	a)	Derive MM equation and give its significance.	8
	b)	Discuss different models of enzyme activity.	8
2.	Wh	at is enzyme inhibition? Discuss different types of enzyme inhibition in details.	16
		OR	
	a)	Discuss the concept of multienzyme complexes with the help of suitable examples.	8
	b)	Give a detailed account on enzyme inhibition kinetics.	8
3.	Des	scribe in detail about purification and isolation of enzymes by different methods.	16
		OR	
	a)	Write a detail account on different models for enzyme catalysis.	8
	b)	Discuss membrane bound enzymes and Isoenzymes in details with the help of suitable examples.	8
4.		at are regulated enzymes? Discuss the process involved in different types of enzyme ulation.	16
		OR	
	a)	Give a detail account on allosteric regulation.	8
	b)	Discuss about calmodulin mediated modification and chemical modification.	8
5.	Solve the following.		
	a)	Write a note on effect of pH and temperature on enzyme activity.	4
	b)	Write a note on competitive inhibition.	4
	c)	Discuss the process of enzyme assay.	4
	d)	Give an account on ping-pong mechanism.	4

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