## M.Sc.(Biotechnology) Second Semester Old BT2-T005 - Enzymology Paper - I

P. Pages : Time : Thre			<b>GUG/W/18/2206</b> Max. Marks : 80
1.	Wha	at is immobilization? Discuss various methods of enzyme immobilization.	16
		OR	
	a)	Derive Michaelis-Menten equation.	8
	b)	Discuss Lock and Key model and Induced fit model for enzyme activity.	8
2.		cuss Reversible and irreversible inhibitors with competitive, non-competition	ive and 16
		OR	
	a)	Give an account on enzyme inhibition kinetics.	8
	b)	Discuss the concept of multienzyme complexes.	8
3.	Disc	cuss in detail about various models of enzyme catalysis.	16
		OR	
	a)	Discuss purification and isolation of enzymes.	8
	b)	Give an account on membrane bound enzymes and Iso enzymes.	8
	Disc	cuss in detail about various types of Allosteric regulation.	16
		OR	
	a)	Write a note on Ping-Pong mechanism.	8
	b)	Discuss about chemical modification and calmodulin mediated regulation	n. <b>8</b>
5.	Solve the following.		
	a)	Discuss about enzyme classification.	4
	b)	Discuss various types of inhibitors.	4
	c)	Give the process of enzyme assay.	4
	d)	Discuss the mechanism of proteolytic activation of an enzyme.	4

\*\*\*\*\*\*