AU-256

M.Sc. (Part-I) Semester-I (C.B.C.S. Scheme) Examination BIOCHEMISTRY

(Advanced Enzymology)

Paper—III

Time: Three Hours]		[Maximum Marks : 80
Note :-	—(1) Al! questions are compulsory and carry equal marks.	
	(2) Draw diagrams wherever necessary.	
1. De	scribe effect of temperature, pH, enzyme and substrate concentratio	n on reaction rate. 16
	OR	
Ex	plain the concept of Steady State and Rapid State Equilibrium Kinet	ics. 16
2. De	scribe in detail kinetics of enzymes inhibition.	16
	OR	
De	scribe role of various coenzymes in metabolism.	16
3. (a)	Describe the structure and function of Ribonuclease.	6
(b)	Describe Proximity effect.	5
(c)	Explain Covalent catalysis.	5
	OR	
(d)	Describe Orientation effect.	5
(e)	Describe the chemistry of active center.	5
(f)	Explain any one physical method for determination of active site ed	onformation. 6
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∔.	(3)	Explain Isoenzymes with example.	6
	(b)	Explain clinical significance of LDH.	5
	(c)	Describe membrane bound enzymes in metabolic control.	5
		OR	
	(b)	Describe compartmentalization of substrates.	6
	(ē)	Explain shuttle system.	5
	(f)	Describe structure of PDH.	5
5.	(a)	Describe Allosteric regulation.	6
	(b)	Describe enzyme induction and repression.	5
	(c)	Describe product inhibition.	5
		OR	
	(d)	Describe mode of hormonal actions on enzymes.	6
	(e)	Explain the concept of receptors.	5
	(f)	Explain feedback control.	5