AQ - 841

[Max. Marks: 80

## First Semester M. Sc. (CBCS) Examination

## BIOCHEMISTRY

Paper – III Advanced Enzymology

73	Pages	 3
1	Pages	 . 1
4.	A SERVICE	100

Time: Three Hours]

Note: All questions are compulsory and carry equal marks.

1. (a) Write the concept of steady state kinetics.

4 (b) Explain single reciprocal plot.

4 (c) Explain effect of pH on enzyme catalysed reactions.

4 (d) Explain effect of enzyme concentration on reaction rate.

## OR

(p)	Derive Michaelis-Menten equation.	. 4
(q)	Explain double reciprocal plot.	4
(r)	Explain effect of temperature on rate.	reaction
(s)	Explain effect of substrate concentrate	ation or

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	(a)	Describe role of metals on enzyme kinetics.	4.		hat are multienzyme complexes? Explain its mificance in detail giving examples.
	(b)	Describe kinetics of reversible enzyme catalysed reactions.		WI	OR hat are isoenzymes? Explain its significance
	(c)	Explain competitive and non-competitive enzyme inhibition.			enzymology giving examples.
	(d)	Explain Haldane Effect. 4	5.	(a)	Explain Enzyme induction and repression.
	<i>(</i> )	OR		(b)	Explain concept of receptors and antogonists
	(p)	Describe bisubstrate kinetics. 4		(c)	Explain allosteric regulation.
	(q)	Explain role of coenzyme in metabolism giving example.		(d)	Explain product inhibition. 4
	(r)	Describe Activator kinetics. 4			OR
	(s)	Explain kinetics of enzyme inhibition. 4		(p)	Describe nature of allosteric enzyme. 4
	ши		1	(q)	Describe feed back control.
3.		cribe chemical modification studied by active directed reagents.	24	(r)	Describe mode of action of allosteric enzyme.
		OR		(s)	Describe mode of hormonal action on
	P. C. C. C.	lain various physical methods for determination active site confirmation.			enzymes. 4
		* 1000			