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TKN/KS/16 - 5867

Fourth Semester B. Sc. Examination BIOCHEMISTRY

Paper - I

(Enzymology)

Time: Three Hours]	[Max.	Marks	: 50
N. B. : (1) All questions are commarks. (2) Draw diagrams when	rever necess	ay.	
Describe in detail the Nomencle	iture and cl	assifica	tion
of enzymes.			10
OR Write notes on following:—			
(a) Acid Base catalysis.			5
(b) Proximity and orientation	effect.		5
2. Our the mechanism of action	of chymotry	psin.	10
OR			
(a) Describe the effect of to activity.	emperature	on enz	yme 5
(b) Describe the role of pyriprocursor.	idoxine as a	coenz	yme 5

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 What is MM equation? Give the assumptions and derivation of MM equation. Also mention its limitations.
OR
(a) What is double reciprocal plot? Give the significance of it.
(b) Write a note on bisubstrate reaction. 5
4. Write an account of enzyme assay with respect to the use of NAD coenzymes and coupled enzymes.
OR
Describe enzyme isola ion based on Molecular size.
10

Answer any ten of the following:-(N Define active site. (N) Name the scientist who proposed induced fit model of enzyme action. 1 (iii) Name one co-enzyme of Riboflavin. 1 (Name the amino acids present at the active site of Ribonuclease. W Define Km. (v) Define coenzymes. (vii) What is competitive inhibition. (NO TPP is the coenzyme of which vitamin? 1 (ix) Give the general graphical representation for LB plot. 1



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VI) De	fine 'Ka	tal'.						1
(X) Na	me one	metl	nod of e	nzyi	me	isolation	based	on 1
	typical aped.	pН	profile	of	41)	enzyme	is -	1

AND ALTHUR THE CORP.