6.	Write on "proximity and orientation effect" and "				
	an	distortion theory".	12		
		OR			
	Exp acti	plain "Lock and Key" and induced fit model for	enzyme		
~			12		
7.	(a)	Write on "Applications of immobilized enzyr	nes".		
	a .		4		
	(b)	"Medical applications of enzymes"	4		
	(c)	Use of proteases in detergents and leather in	dustry.		
			- 4		
		OR			
	(p)	Production of glucose from starch.	4		
	(q)	Enzyme applications in dairy industry.	-		
	(r)	Enzymes applications in the	4		
	(•)	Enzymes applications in pharmaceutical.	4		

B.Sc. Part-II (Semester-IV) Examination 4S: BIOCHEMISTRY (Enzymology)

Time: Three I	Hours]	[Maximum Marks: 80
	marks except Q. No. 1	npulsory and carry equal which carries 8 marks. diagram and formulae
l. (A) Fill i	n the blanks :	
	coined the term	enzyme. 1/2
(ii)	Optimum pH for pepsi	in is
(iii)	Energy required to ach	ieve transition state in
	enzyme catalyzed reaction	on is called as
	Coenzyme FAD is involve	14
(B) Choo	se the correct alternative	/ ₂ /e:
(ī) (i	Competitive inhibition in	nvolves change in ·
. (a) V	
(1	b) Km	
(6	c) Both	
(6	i) None	1/2
LIDD		

UBS-	_4994	17		2	(Contd.)	UB	S499	47 3	(Contd.)	
OR						- 4	able examples.	12		
	(c) Met		taloenzymes.		. 4	ţ		Describe the role of metal ions in enzyme catalysis v		
	(b)			nzyme activity	4	i .	т.	OR		
	(a) Active site			-	4		enz	enzyme catalyzed reactions. 12		
2.	Wri	te in l	n brief on the following:			· 5.		ite in detail about the structure and role of N.		
		(iv)	Wh	at is substrate for acetyl	choline esterase ?	•		•	4	
		` '		at is transition state?	. 1		(1)	$V_{\rm max}$ determination in presence and absence of it	ıhibitor.	
				Burk equation.	1			reaction.	4	
		(ii)	Draw graphical representation		on for lineweaver		(q)	Kinetic of zero order reaction in enzyme catalyze		
		(i)	Wh	at is actvators?	1		(p)	Noncompetitive inhibition.	4	
	(C)	Wri	` '	swer in one sentence :				OR		
			(d)	None	1/2		(c)	Determination of K _m in presence of inhibito	rs. 4	
			(c)	Enzyme immobilization			(b)	Irreversible inhibition of enzyme.	4	
			(a) (b)	Enzyme mobilization		4.	(a)	Describe first order reaction kinetic.	4	
			as : (a)	Enzyme localisation			(r)	Test for homogeneity of enzyme preparation	n. 4	
		(iv)			g in beads is called		(4)	pong' mechanism.	4	
			(d) Vitamin B ₆	1/2		(q)	Describe the process of transamination as	'ning-		
			(c)	Ascorbic acid (vit. C)			(p)	Lineweaver-Burk plot.	4	
			(b)	Riboflavin (B ₂)			(0)	OR .	7	
			(a)	Thiamine (B ₁)			(c)	Sequential reactions.	4 1	
		(iii)	Pyri	idoxal phosphate is deriv	vative of vitamin:		(b)	Enzyme crystallization.	4	
	• •		Irreversible inhibitor	1/2	3.	(a)	Describe the effect of pH on activity of ena	ryme. ₄		
			(c)	Reversible inhibitor	•	,	(r)	Chymotrypsin.	4	
			(a) (b)	Competitive inhibitor	OI	; {	(q)	Holoenzyme	4	
		(ii)		sopropyl Fluorophospha Noncompetitive inhibite		†	(p)	LDH – as an isoenzyme	4	
		c:N	Dil.		A. (DIEB) I	Ş.				