Seat No.:	

SL-112

September-2020

B.Sc., Sem.-VI

CC-310: Biochemistry (Advanced Enzymology)

				((Advance	ed Enzy	molog	y)			
Time	e: 2 E	Iours]			`	•	Ο.	• ,		[Max. M	larks : 50
Instr	uctio	((1) (2) (3)	All Question Attempt any Question IX	y THREE	question	s in Sect	tion I.			
					Sec	ction – I					
	Atter	npt any	3 0	ut of 8 quest	tions.						
1.				il Competit netic propert		n-compe	itive In	hibitors	with pr	oper exa	mples. 1 4
2.	(A) (B)	, 1								nodel.	
3.		uss in o		l the use of	Spectropho	otometric	method	d in follo	wing er	nzyme rea	actions 14
4.	(A) (B)	Write a note on general handling enzymes. Discuss any seven enzyme units.							7		
5.	Wha	t is enz	yme	homogeneit	ty? Discuss	s the crit	eria for e	enzyme ł	omogei	neity.	14
6.	(A) (B)	purific List t	catio	actional precon. various colony one of the	umn chror	•				-	7
7.	List meth		ent r	nethods of	immobiliz	zation of	enzym	es. Disc	uss any	two of	these 14
8.	(A) (B)	acid fi	rom	ne use of enz samples. ne use of any	•					, Urea an	d Uric

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Section - II

9. Attempt any 8 (eight):

- (1) What is an Allosteric site?
- (2) What is the effect of uncompetitive inhibitors on Vmax & Km?
- (3) Write the Michaelis mention equation.
- (4) What are K-type & M-type of allosteric enzymes?
- (5) Draw & label Clark's electrode.
- (6) Give two advantages of Spectrofluorometric method for following enzyme reactions.
- (7) What is an enzyme assay?
- (8) Write one precaution taken while handling enzymes.
- (9) State two methods for extraction of enzymes for Enzyme purification.
- (10) On what bases will you select a source of enzyme for Enzyme purification?
- (11) Why do we need to estimate proteins during Enzyme purification?
- (12) Generally which salt is used for precipitation of proteins during Enzyme purification?
- (13) What are Biosensors?
- (14) Name two enzymes important for clinical diagnosis for heart disease.
- (15) What is the use of protease in food industries?
- (16) List one disadvantage of use of enzyme as medicine.

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