Seat No. :		

LG-107

April-2014

B.Sc. (Sem.VI)

CC-310: Biochemistry

(Advanced Enzymology)

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Tin	ne: 3	Hours] [Max. Marks	: 70
1.		cuss competitive, non-competitive & uncompetitive inhibitors with appropriate mples & their kinetics.	te 14
		OR	
	(a)	Derive Michaelis-Menton equation for the enzyme catalyzed reaction.	8
	(b)	Discuss any two methods for determination of \boldsymbol{K}_{m} and \boldsymbol{V}_{max} .	6
2.	(a)	Discuss with elaborate illustrations Spectrophotometric method for following enzyme reactions.	ng 10
	(b)	Write a note on handling of enzyme.	4
		OR	
	(a)	Describe Manometric method for following enzyme reactions with appropriate examples.	te 8
	(b)	Discuss various units for enzymes.	6
3.	Disc	cuss in detail the use of chromatographic techniques in enzyme purification.	14
		OR	
	(a)	What is enzyme homogeneity? Discuss the various methods to check it wit respect to purification of enzymes.	th 10
	(b)	Discuss the sources of enzymes with respect to purification of enzymes.	4
4.		cuss enzymes as medicines in detail with examples, advantages and disadvantages or use.	of 14
		OR	
	(a)	Discuss Biosensors in detail with respect to their components, types & use.	12
	(b)	How will you estimate Uric Acid by using enzyme? Explain with proper diagram.	. 2
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5. Answer the following questions:

Define Immobilized enzymes.	2
Define irreversible inhibitor with one example.	2
What is concerted model for allosteric enzymes?	2
Name the allosteric modulators of ATCase.	1
What type of enzyme reactions can be following by Thunberg method?	1
What is salting-in?	1
An enzyme produces acid, by which all methods can we estimate it. Justify your answer.	2
Name two enzymes that are important from clinical application point of view.	2
Discuss any one application of enzymes in food industry.	1
	Define irreversible inhibitor with one example. What is concerted model for allosteric enzymes? Name the allosteric modulators of ATCase. What type of enzyme reactions can be following by Thunberg method? What is salting-in? An enzyme produces acid, by which all methods can we estimate it. Justify your answer. Name two enzymes that are important from clinical application point of view.

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