Seat No.:	_
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P.T.O.

ND-104

December-2015

B.Sc., Sem.-V

Core Course-303 : Biochemistry (Enzymology)

Time	Marks: 70		
1.	(a)	Write a note on characteristics of enzyme.	(7)
	(b)	Explain multi-enzyme complex-PDH.	(7)
		OR	
	(a)	Write a short note on co-factors and co-enzymes.	
	(b)	Explain Fischer and Koshland model.	
2.	Writ	te short note on any two of the following:	(14)
	(a)	Role of ions in activation of enzyme with examples.	
	(b)	Separation of Isoenzymes.	
	(c)	Membrane bound enzyme-with examples.	
3.	Writ	te short note on any two of the following:	(14)
	(a)	I, III, VI – Classes of enzymes with 2 examples each.	
	(b)	Factors affecting enzyme : Substrate concentration, Time and Inhibitors.	
	(c)	Factors affecting enzyme: Radiation, pH and Oxidizing Agents.	

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	(a)	Explain – ATCase as Allosteric enzyme.	
	(b)	Discuss regulatory role of any one allosteric enzyme.	
	(c)	Explain covalently modulated enzymes with example.	
5.	(a)	Define any four – Enzyme, apoenzyme, ribozyme, allosteric site and extrimozym	e.(5)
	(b)	Explain ordered or Ping Pong mechanism of enzymatic reactions.	(4)
	(c)	Draw well labelled curve of pH and substrate concentration.	(2)
	(d)	Brief note on Enzyme specificity.	(3)

(14)

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Write any **two** of the following:

4.