Seat No.	•

ND-141

November-2021

B.Sc., Sem.-V

303: Biochemistry

(Enzymology)

Time: 2 Hours] [Max. Marks: 50

Section - I

	Ansv	wer any three questions from the followings:	
1.	(A)	What are the types of specificity of Enzymes.	7
	(B)	Discuss properties of bio-catalyst.	7
2.	(A)	Explain Koshland & Fischer model.	7
	(B)	Giving examples explain (discuss) Metalloenzymes.	7
3.	(A)	Discuss with examples – "Zymogens".	7
	(B)	Explain in detail— LDH iso-enzymes.	7
4.	(A)	Short note on "Multi-Enzyme Complex".	7
	(B)	Explain – Class-II, V of enzyme classification.	7
5.	(A)	How allosteric enzymes are different than non-allosteric enzymes? Discuss.	7
	(B)	Short note on: Random mechanism of 2 substrate reaction.	7
6.	(A)	Explain why and how co-valent modification of enzyme affects reactions	
		(process).	7
	(B)	Explain effect of substrate concentration on enzymatic reactions.	7
7.	(A)	Explain – Extremozyme and Abzymes.	7
	(B)	Explain – Active site and 3D structure of Enzyme.	7
8.	(A)	Explain – Class – IV and VI of Enzyme classification.	7
	(B)	Explain – Thermosensitive nature of enzymes.	7

Section - II

8

9.	Answer any eight questions from the following:	
	(1)	Define Cofactor.
	(2)	Define Synzyme.
	(3)	Define V _{max} . (explain term)
	(4)	What is "Ribozyme nature"?
	(5)	Name and contribution of one enzymologist.
	(6)	Name any one enzyme which is membrane bound.
	(7)	Name 1 enzyme requires Mg ⁺⁺ .
	(8)	Glucose-6-phosphatase belongs to which class of Enzyme classification?
	(9)	Define Holoenzyme.
	(10)	Name 2 co-enzymes.
	(11)	Full form of AT Case is
	(12)	Name any one enzyme of Class – I.
	(13)	Name any one enzyme of Class – III.
	(14)	Define "Allosteric site".
	(15)	Hydrolase belongs to which class?
	(16)	Name class of enzyme for PDH.

ND-141 2