[Time: $2\frac{1}{2}$ Hours] [Marks:75]

Please check whether you have got the right question paper.

N.B: 1. Attempt **all** questions.

- 2. All questions carry equal marks.
- 3. Draw neat labelled diagrams wherever necessary.
- 4. Use of non-programmable calculator is allowed.

Do a	s directed: (any fifteen)	7.
i.		Y
	a. Apoenzyme b. Holoenzyme c. Core-enzyme	
ii.		
	yields a straight line is called as	
	a. Line Weaver Burk plot b. Haldane plot c. Ramachandran plot	
iii.		
	a. Apoenzyme b. Holoenzyme c. Co-enzyme	
iv.		
	enzyme.	
	a. Urease b. Catalase c. Amylase	
V.		
_	a. binding b. potential c. activation	
vi.		
	a. Vmax b. Km c. [S]	
vii.		
	bind.	
	a. Extracellular c. Allosteric	
viii.		
ix.		
X.	V X X X X X X X X X X X X X X X X X X X	
xi.		
xii.		
xiii.	72	
xiv.		
XV.	^ \\ \text{X} X	
xvi.	Square of Standard Deviation is	
xvii.		
xviii.	N.B. X. 20. 20. 20. 20. 20. 20. 20. 20. 20. 20	
47.83.00	polygon.	
xix.		
XX.	Give the formula to calculate Coefficient of Variance.	
a. Enlis	t the salient features of active site of an enzyme.	
D. Give	an account of different classes of enzymes.	
Y 80 1 18	DT C Y 2 V 20 0 7 6 V	

OR

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	c.	Derive the relationship between substrate concentration and enzyme activity.	8
	d.	Give an account of different theories/models of enzyme-substrate complex formation.	7
Q.3	a.	Differentiate Active and Passive Immunity.	8
	b.	Diagrammatically explain the structure of an antibody molecule.	3
		OR PROPERTY OF THE PROPERTY OF	
	c.	Discuss various classes of immunoglobulins.	8
	d.	Schematically explain the production of monoclonal antibodies.	777
Q.4	a.	Define Biostatistics. Discuss the importance of Biostatistics in Biology.	8
	b.	Explain Median and Mode and also Compute Median and Mode for the following data	7
		15, 16, 17,18, 19, 20, 33, 12, 56, 14, 14, 11, 14, 14, 14, 16, 17, 18, 19, 30, 34, 35, 34, 14, 25.	
		OR	
	c.	Compute Standard Deviation for the respiratory rate in 10 cases as follows	8
		23, 22, 20, 24, 16, 17, 18, 19, 21, 20.	
	d.	Explain representation of data using Bar graph, Pie charts and Histogram.	7
Q.5		Write short notes on any three of the following:	15
		a. Reversible Enzyme Inhibition.	
		b. Applications of enzymes.	
		c. Any one technique of Agglutination.	
		d. Variance.	
		e. Data and its types.	
		(C)	