## B.Sc. 3<sup>rd</sup> Semester Sessional Examination-2023

Sub: Zoology (H)

## Paper: Fundamentals of Biochemistry Paper Code: ZOO-HC-3036 Full Marks: 20

Time: 1 Hr

## The figures in the margin indicate full marks for the questions

1.	Answer the following questions ( <i>Any five</i> ):		$1\times5=5$
	a.	Give an example of group specificity of an enzyme.	
	b. The number of hydrogen bonds between guanine and cytosine is		
		(Fill in the blank)	
	c.	What is Isozyme?	
	d.	Define mtDNA.	
	e.	The non-protein component of the enzyme molecule is known as	
		(Fill in the blank)	
	f.	The type of inhibition in which inhibitors reversibly bind with the enzyme mo	olecule
		affecting the equilibrium constant of the reaction is known as Reversible Inhi	bition.
		(True/False).	
2.	Write short notes on (Any two):		$2\frac{1}{2} + 2\frac{1}{2} = 5$
	a.	Specificity of Enzyme Action	
	b.	Nomenclature of Enzymes	
	c.	Types of DNA	
	d.	Nucleosides	
3.	Answer <i>any one</i> of the following questions:		1×10=10
	a.	Give a brief account of denaturation and renaturation of DNA.	5+5=10
	b.	Define Inhibitor? Explain the roles of different types of Enzyme Inhibition.	2+8=10
	c.	What is Cofactor? Explain the mechanism of Enzyme Action.	2+4+4=10

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