## SUBJECT CODE NO: - FF-6532 FACULTY OF SCIENCE AND TECHNOLOGY

M.Sc. (Sem-I) (Zoology)
Examination January-2023
Biochemistry ZOO-102

		Biochemistry ZOO-102	
Time:	: 3:00 H	Iours]	[Max. Marks: 8
		Please check whether you have got the right question paper.	
N. B		i. Part 'A' is compulsory.	
		ii. Attempt any five questions from Part 'B'.	
		iii. Draw neat labelled diagram wherever necessary.	So, YE
		Part 'A'	
01 4	44 4 4		
Q1 A	-	the following multiple choice questions.	
		he uranic acid is formed when	
	a)		
	b)		
	c)		
	d)	The aldehyde group is converted in CH <sub>2</sub> OH.	
	2	is macromolecule but not a polymer.	
	a)	Carbohydrate	
	b)	Lipid O	
	c)	Protein	<b>*</b>
	d)	Nucleotides S	
	3. B	eta – oxidation of fatty acids occurs in	
	a)	Peroxisome	
	<b>b</b> )	Peroxisome and ER	
	c)	Peroxisome and Mitochondria	
	d		
	) · · · · · ·		
	4. Ri	ibulose is having the	
		4 chiral carbons	
	(b)	3 chiral carbons	
	c)	2 chiral carbons	
	d)		
	, -,		
	5. A	mino acids are linked together by amide groups are called as .	
	a)		
	b)		
	c)		
	d)		
		, Trydrogen bonds	
2/4	6 V	eratin has the highest concentration of	
	a)		
	b)		
	c)	Lysine	

	7. Which of the following enzyme joins the ends of two strands of nucleic acids?	6, 6
	a) Helicase	
	b) Synthetase	
	c) Ligase	6
	d) Polymerase	
		\$ 6
	8. The allosteric inhibiter of an enzyme	
	a) Denatures the enzyme	
	b) Causes the enzyme to work faster	
	c) Binds to the active sit.	
	d) Participates in feedback regulation.	
	a) I articipates in recuback regulation.	
	9. Which of the following is the catabolic end product of purine nucleotide?	
		V. 5
	c) NH <sub>3</sub>	
	d) Both b and c	
	10. Which of the following is complex lipid?	
	a) Cardiolipin	
	b) Cerebroside	
	c) Phospatidic acid	4
	d) Cholesterol	
	Part'B'	
Q2	What are Carbohydrates? Classify them with suitable examples.	12
742	what are carbony araces. Classify them with suitable examples.	12
02		10
Q3	Design phospholipids with their suitable examples and functions.	12
Q4	Describe the structure of DNA with characteristic features of its various types.	12
05	Give a detail account on types of standard amino acids.	12
ζ.	She is detail decount on types of samuara unimo detas.	12
06	Evaloin isomorism in Corboby duotes and its tymes with suitable ayamale	12
Qo	Explain isomerism in Carbohydrates and its types with suitable example.	12
Q7	Describe in detail oxidative and substrate level phosphorylation.	12
Q8	Write a short note on (any 2)	12
	a) Glucose	
A.	b) Cholesterol	
	c) Secondary structure of Protein	