Total No. of Printed Pages: 2

## SUBJECT CODE NO: - SS-6667 FACULTY OF SCIENCE AND TECHNOLOGY

M.Sc. (Zoology) (Sem-I) Examination May / June - 2023 Biochemistry ZOO-102

[Time: 3:00	0 Hours]					[Max. Marks: 80
-	-		eck whether you!	have got the right q	juestion paper.	
			XT AST	150x - 6x.	6	
N. B			'A' is compulsor			
				estions from part 'B		
		iii) Dra	w neat labelled d	liagram wherever n	necessary.	
						25
			F F	Part 'A'		
O 1 Attor	ant tha fal	Lowing myltir	ala ahajaa ayaati			200
			ole choice questions a bent geometr	ry with an H-O-H b	and angle or	20
1,		00.8°	b) 110.5°	c) 103.1°	d) 104.5	50 8
	4) 10	70.0	0) 110.5	() 103.1	(d) 101.	
2	The stre	ength of an aci	id is specified by	itscons	stant.	
Ŕ		ssociation	b) dissociation			e of the above
3)				re of a polypeptide		
		rimary structur		b) Secondary		
	c) Te	ertiary structu	re	d) Quaternary	y structure	
	) If a solu	ition has to be	e a buffer, it's pH	should be		
		t its pKa value		Ka value c) A	$\frac{1}{\sqrt{17}}$ d) At p va	alue
		F				
5)	The prin	mary structure	e or glycogen res	embles that of amy	lopectin, bout gly	cogen is more
			4 \ =	ccurring every		sides.
	a) 6	to 10	b) 8 to 14	c) 4 to 8	d) 6 to 12	
43° 6	Which	of the following	na amina acidis	aamman in hata ba	and 2	
6		lycine	b) Cysteine	common in beta be c) Methionine	d) Serine	
500	<i>a)</i> 0.	tyenie .	b) Cysteine	c) Wetholine	d) bernie	,
T	Fructos	e is an exampl	le or			
	a) Tı	rioaldose	b) Hexoaldos	se c) Hexoketo	ose d) Pentok	etose
8)		- VO'		ith carboxylic grou	•	
	(a) Fa	atty acid	b) Sterol	c) Saccharolipids	d) Glyceropho	spholipids
0	Individ	uale with the c	ranatic dicasca n	henylketonuria, wh	o are unable to m	etabolism
2,79	, marviat	iais with the g	geneue disease pi	ijenyikeionuna, wn	o are unable to III	Ciaoonsiii
	a) M	annose	b) Kylose	c) Arabinose	d) Phenylulami	ine
	65-SV		X.	,	· •	

	a) Hexokinase b) Phosphofructokinase
	c) 1,6 bisphosphatase d) phosphoglucoisomerse
	Part 'B'
Q.2	What are co-enzymes? Give the list of co-enzyme forms of vitamin B complex with thus significance
Q.3	Give a detail account on structure, bonding and special properties of water.
Q.4	What are lipids? Explain the classification with suitable example.
Q.5	Explain Watson and crick model of DNA and give a short note on DNA types.
Q.6	Explain in detail the regulation of glycogenesis and glycogenalysis
Q.7	Give a detail account an types of classification of amino acids.
Q.8	Write short notes on (any two)  a) Nucleocides b) Hydrogen bonding c) Primary structure of proteins.

10) In glycolysis the enzyme which converts glucose 6-phosphate into fructose -6-phosphate