Enrolment Number											
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Total No. of printed pages = 02

## Monsoon, 2023

## **BMLT Semester Examinations**

## **BIO CHEMISTRY-I**

Course Code: BML23103T

Full Marks – 60		Time $-2^{1}/_{2}$ hours
The figure in the 1	margin indicates full marks for the questions.	
1. Answer the following questions		$(10 \times 1 = 10)$
(i) Example of Ketohexose		
a.Fructose	b. Glucose	
c. Lactose	d. Glactose	
(ii) Example of Sulfur contain	ing aminoacids	
a. Tyrosine	b. Theronine	
c.Tryptophan	d. Methionine	
(iii) Two amino acids are linke	ed together by	
a. Hydrogen bonds	b. Glycosidic bonds	
c. Peptide bond	d. Cvalent bonds	
(iv) Example of volatile acid		
a. Hydrochloric acid	b. Carbonic acid	
c. Nitric acid	d. Leucine	
(v) Start Codon codes for the	amino acid	
a. Tyrosine	b. Theronine	
c. Tryptophan	d. Methionine	
(vi) This residues in Hemoglo	bin is responsible for buffering action	
a. cysteine	b. lysine	
c. Histidine	d.Alanine	
(vii) Amino acids are attached	to thearm of tRNA	
a. Anti codon Arm	b. Acceptor Arm	
c. T arm	d. Variable arm	
(viii) DNA is wranned in	nrotein	

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	a. Collagen	b. Histones				
	c. Keratin	d. None of the above				
	(ix) nitrogen	ous base in DNA is replaced by uracil in RNA				
	a. Cytosine	b. Thymine				
	c. Adenine	d. Guanine				
	(x) Good cholesterol is al	o known as				
	a. HDL	b. LDL				
	c. VLDL	d. Chylomicrons				
<i>2</i> .	Answer any five questions:	$(5 \times 2 = 10)$				
	a. Denaturation					
	b. Zwitter ion					
	c. Buffer					
	d. Sucrose					
	e. Rancidity					
	f. Epimers					
<i>3</i> .	Answer any four questions:	$(4 \times 5 = 20)$	,			
	a. Classify Monosaccharide and give examples					
	b. Write in short about the buffer system in the body					
	c. Classify Amino acids based on the nutritional value and give examples					
	d. Tabulate the difference	between DNA and RNA				
	e. Write in brief the role of	f lungs and kidney in maintaining Acid bases hemostatis				
	f. Homopolysaccharides					
4.	Answer any two questions:	$(2 \times 10 = 20)$	)			
	a. Explain in detail the St	ucture of DNA				
	b. Classify protein based	on the solubility and chemical nature				
	c. Classify Lipids and giv	examples				