## 0501E968

Candidate's Seat No :\_\_\_\_\_

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## B.Sc. Sem.-1 Examination

## DSC-C-111

**Bio-Chemistry** 

January-2024

nn	January-2024	
Time: 2-00	[Max	. Marks :
Q1. a	) Define cell & state and the second	VIALKS :
	cells cells	(04)
b)	, and then one example:	
	1. Vitamin 2. Hormone 3. Enzyme 4. H-Bond 5. Metabolism 6. Ribozyme OR	(06)
Q1. a)	Draw, label & briefly explain the Central Dogma of life.	
b)	Write two important postulates of RNA world. Explain the Miller- Urey	(05)
Q2. a)		(05)
b)	Write the structure of:	(04)
	1. Alanine 2. Leucine 3. Aspartic acid 4. Lysine 5. Cysteine 6. Serine	(06)
Q2. a)	OR Write the structure of: D- Glucose & D- Fructose. Outline the classification of Carbohydrates.	
b)		(04)
S,	Discuss the functions of Protein.	(00)
Q3. a)	Write the state of	(06)
b)	Write the structure & source of : Lactose & Sucrose.	(OC)
٠,	Define with an example for each of: Epimer and Anomer	(06)
O3. a)	<b>^</b> D	(04)
<b>43.</b> <i>a</i> <sub>j</sub>	Explain the reactions of fatty acids for:	(05)
	1. Soap Formation	(05)
b)	2. Conversion of liquid fats to solid fats	
Q4. a)	Write a note on rancidity of fats.	(OE)
b)	Discuss Decarboxylation reaction of amino acids.	(05)
۵,	Describe Ampholytic property of amino acids.	(04)
	OR.	(06)
Q4. a) (	Define Isoelectric pH for amino acids .Discuss titration curve for Alanine.  Attempt any 10 out of the following:	•
		(10)
2 [	Define Mutation.	(10)
3 1	ist any two applications of biochemistry.	
J L	ist any two axioms of living matter	
4 v 5 v	Write the full form of MUFA with an example.	•
•	viiat are proteins made up of? Give an average	
	Table Colide: Wild is the full forms of Amno	
, ,	arrie arry two chemical constants for face	
0 14	alle any two examples of wayes	
9 W	/nat are oligosaccharides? Give one over the	
-0 VV	mat are essential amino acide? Give any control of the control of	
	sime Non-protein Amino acids with an array i	
12 Gi	ve one role of Insulin.	