Time: 2-00 Hours]

## 1006E590

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

## B.Sc. Sem.-2 Examination CC-3 - 103 Biochemistry

June 2022

[Max. Marks: 50

Instructions: All questions in section - I carry equal marks.

Attempt any THREE questions in section - 1

Questions in section - II is compulsory

Time: 2. 00 hrs.

Total Marks: 50

ection - J	at any and functions of	(06)
21. (A)	Give structure, sources, and functions of:	
	1. Glycogen. 2. Chitin. 3. Heparin	(08)
(B)	Discuss: Structure, properties and use of Cellulose	
20 (1)	Give structure, sources, and functions of:	(08)
Q2. (A)	1, Pectin. 2. Starch. 3. Chondroitin sulphate –A .4. Inulin	
(D)	Write a note on structure of bacterial cell wall	(06)
(B)	Write a note on structure of outcome con-	
02 (4)	Write a note on conjugated proteins	(06)
$\frac{Q3.(A)}{(B)}$	Discuss the functions of proteins.	(08)
(B)	Discuss the functions of proteins.	
Q4. (A)	Discuss the following:	(08)
	Discuss the following.	
	Precipitation of proteins by organic solvent	
	2. List the steps involved in protein sequencing	(06)
(B)	Describe alpha helical structure of proteins	(06)
		-
	ODL 1 P. A.	(09)
Q5. (A)	Discuss the functions of Phospholipids	(05)
(B)	Discuss the action of Phospholipases on Lecithin.	1007
	time the apparties and functions of Cholesterol	(10)
Q6. (A)	Draw the structure and discuss the properties and functions of Cholesterol	(04)
(B)	Write a brief note on Prostaglandins.	1
	Gille it was bases found in RNA. List three important	(07)
Q7. (A)	Draw the structures of the nitrogen bases found in RNA. List three important	
	properties of Nitrogen Bases.  Draw the structure of any three derivatives of nucleotides ang give its function	(07)
(B)	Draw the structure of any three derivatives of indecediacs and give its	
	Taf DNA	(07)
Q8. (A)	Write a brief note on: Types of RNA	(07)
(B)	List Watson and Crick postulates of DNA model.	
	Section - II	
		(08)
Q9.	Attempt any Eight Questions	
1.	What is invert sugar? Give an example	
2.	State one difference between starch and Glycogen	
3.	Sate one function of hyaluronic acid	
4.	Which homopolysaccharide is used as jelling agent?	
5.	What are simple proteins?	-
6.	Name the four levels in protein structure	
7.	Give one difference between Globular & Fibrous protein	
8.	Name any two different types of lipoproteins present in blood	_
9.	What are Cerebrosides made of?	_
10.	State any one physical property of Phospholipids	
11.	Name any two Sphingolipids	_
12.	Name any two colour reactions of Cholesterol	
13.	What is the nature of bond between the nitrogen bases	
14.	What is a rare base? Give one example.	
15.	What is the difference between Nucleoside and Nucleotide	_
1 _	List two important differences between DNA & RNA	