1006E590

Candidate's Seat No :____

B.Sc. Sem.-2 Examination

CC-3 - 103 Biochemistry

Time: 2-00 Hours]

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 -	Give structure, sources, and functions of:	(06)
1. (1)	1. Glycogen. 2. Chitin. 3. Heparin	1007
(B)	Discuss: Structure, properties and use of Cellulose	(08)
(6)	Discussion of properties and use of certains	(00)
Q2. (A)	Give structure, sources, and functions of:	(08)
Q2. (A)	1, Pectin. 2. Starch. 3. Chondroitin sulphate -A .4. Inulin	1,4
(B)	Write a note on structure of bacterial cell wall	(06)
(1)	Write a note on samplane at oucterful cent man	1
(3. (A)	Write a note on conjugated proteins	(06)
(B)	Discuss the functions of proteins.	(08)
(17)		
Q4. (A)	Discuss the following:	(08)
	Discuss the following.	
	1. Precipitation of proteins by organic solvent	
	2. List the steps involved in protein sequencing	(0.4)
(B)	Describe alpha helical structure of proteins	(06)
		-
	The state of the sector of the	(09)
Q5. (A)	Discuss the functions of Phospholipids	(05)
(B)	Discuss the action of Phospholipases on Lecithin.	1,50
06 (4)	Draw the structure and discuss the properties and functions of Cholesterol	(10)
Q6. (A)	Write a brief note on Prostaglandins.	(04)
(B)	Write a brief flote on Frostagiandins.	1
Q7. (A)	Draw the structures of the nitrogen bases found in RNA. List three important	(07)
	Of Nitrogen Bases	-
	Draw the structure of any three derivatives of nucleotides ang give its function	(07)
		(07)
Q8. (A)	Write a brief note on: Types of RNA	(07)
(B)	List Watson and Crick postulates of DNA model.	1
	Section - 11	(08
Q9.	Attempt any Eight Questions	
Ì.	What is invert sugar? Give an example	
2.	State one difference between starch and Glycogen	
3.	Care and function of hyaluronic acid	
4.	Which homopolysaccharide is used as Jennig agent.	
5.	What are simple proteins?	
	levels in protein structure	
6.	i i i i i i i i i i i i i i i i i i i	
7.	Name any two different types of hipoproteins pres	
8.	Carabacoudes made UI	-
9.	State any one physical property of Phospholipids	- 1
10.	two Columbias	
11.	alour reactions of Cholestere.	
12.	Name any two colour reactions of the nitrogen bases	
13.	What is a rare base? Give one example. What is a rare base? Give one example.	
	t Cive one example.	
14.	What is a face base. Other	the second second
14.	What is a rare base? Give one examples What is the difference between Nucleoside and Nucleotide List two important differences between DNA & RNA	