## B.Sc. Sem.-1 Examination

CC-3-P-101

Biochemistry

Time: 2-30 Hours] October-2024 [Max. Marks: 70

$\Omega_{1}$ , $\infty$	
Q1. a Write a short note on Central Dogma of Life.	
b Discuss the scope of Biochemistry	(06)
Ql a Write a short note on Mutation  OR	(08)
b Write a short note on Origin of life.	(07)
	(07)
Q2 a Write structures of:	,
D- Glucose, D-Fructose, D-Galactose, D-Ribose, D Mannose b Discuss Molisch test for Sugars	(10)
Q2 a Discuss the following:	(04)
1. Fehling's reaction & its importance	
2. Dalloed S reaction and its significant	(03)
Discuss Lobry de Brilyn Von Elvante	(03)
b Discuss the classification of Carbohydrates with examples.	(04)
	(04)
Q3. a Write the structure of: Alanine, Tyrosine, Glutamic acid, Proline, Lysine, b Discuss the following:	(06)
b Discuss the following:	(00)
1. Amino acids as Ampholytes	(08)
2. Decarboxylation reaction of amino acid	
a constant and a cons	
Q3. a Discuss the titration curve in detail of Alanine with proper graph Q4. a Discuss the functions of Fatty Acids.	(14)
of all the fields.	(08)
b Define PUFA, MUFA with an example for each with the structures.	(00)
Q4. a Discuss the following read:	(06)
Q4. a Discuss the following reactions of fatty acids:	(0.5
1. Salt formation,	(06)
2. Hydrogenation	
b Discuss any four chemical constants of Fats	
	(08)
Q5. Answer to the point: (Any 7)  1. Name any one biochemic and the point of the po	(00)
one of the operations	(14)
and difference between en zuma 9. L	
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<ul> <li>4. Define Epimer with an example</li> <li>5. Define Anomer with an example</li> <li>6. Define Anomer with an example</li> </ul>	
6. Define with example: Rare amino acids. 7. Define Linida.	
7. Define Lipids with an example	
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## E602

- 8 What are Waxes? Give one use of Waxes. 9 How will you confirm the presence of ketosugars in a carbohydrate sample? Give am Example of a keto sugar.
- 10 Define Catabolism & Anabolism .
- What types of amino acids are hydroxyl proline & Ornithine?
- 12 Define Isoelectric pH& what is its importance?