No. of Printed Pages : **2**

21BSC202CH2

B.A./B.Com./B.S.W./B.B.A. II Semester Degree Examination, September/October - 2023

CHEMISTRY (OEC)

OEC-2 : Molecules of Life

(NEP)

Time : 2 Hours Maximum Marks : 60

Note : *Answer* ***all*** *sections.*

SECTION - A

1. Answer the following sub-questions. Each Sub-question carries **one** mark. **10x1=10**

(a) What are Carbohydrates ? **1**

(b) What is Mutarotation ? **1**

(c) What are Proteins ? **1**

(d) What is Isoelectric Point ? **1**

(e) Define Enzyme Inhibitors. **1**

(f) What are Co-enzymes ? **1**

(g) Expand RNA. **1**

(h) What is Calorific Value of food ? **1**

(i) What are Lipids ? **1**

(j) Define Anabolism. **1**

SECTION - B

Answer **any four** of the following questions. Each question carries **five** marks. **4x5=20**

2. Explain the general properties of glucose. **5**

3. Explain determination of primary structure of proteins. **5**

4. Write the factors affecting enzyme action. **5**

5. Explain structure of DNA. **5**

6. Discuss oxidation of food stuff as a source of energy for cells. **5**

7. Explain binding role of $-OH$ group in drugs. **5**

P.T.O.

SECTION - C

Answer **any three** of the following questions. Each question carries **ten** marks. **3x10=30**

8.	(a)	Explain the classification of Carbohydrates.	**6**
	(b)	Write the structure of Sucrose and Maltose.	**4**
9.	(a)	Explain the classification of Amino Acids.	**6**
	(b)	Discuss importance of proteins in growth and the sustainments.	**4**
10.	(a)	Explain Competitive and non Competitive inhibition.	**6**
	(b)	Discuss Receptor theory.	**4**
11.	(a)	Explain Biological importance of triglycerides.	**6**
	(b)	Explain Replication and Translation.	**4**
12.	(a)	Discuss Catabolic pathways of Fats and Proteins.	**6**
	(b)	Write a note on Calorific value of food.	**4**

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