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## 21BSC2O2CH2

## B.Sc. II Semester (NEP) Degree Examination, September/October - 2022 **CHEMISTRY**

**OEC-2**: Molecules of Life

Time: 3 Hours Maximum Marks: 60

**Instruction:** Answer **all** Sections.

## **SECTION - A**

1.	Ans	wer the following sub-questions. Each sub-question carries one mark.	10x1=10		
	(a)	What are monosaccharides?	1		
	(b)	What are amino acids?	1		
	(c)	What is isoelectric point?	1		
	(d)	Write the open chain structure of Glucose.	1		
	(e)	What are coenzymes?	1		
	(f)	What are drugs?	1		
	(g)	Write the structure of Adenine.	1		
	(h)	What are lipids?	1		
	(i)	Define Calorific Value.	1		
	(j)	Expand ATP.	1		
		SECTION - B			
	Ans	wer <b>any four</b> of the following questions. Each question carries <b>five</b> mark	ks. 4x5=20		
2.	Writ	te a note on Mutarotation.	5		
3.	Explain importance of proteins in growth and life sustainments.				
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4.	Exp	lain the factors affecting the enzyme action.	5		
5.	Discuss Biological Role of DNA.				
6.	Writ	te a note on metabolism.	5		
7.	Exp	lain bridging role of -OH group in drugs.	5		
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## SECTION - C

Answer any three of the following questions. Each question carries ten marks.

			3x10=30
8.	(a)	Write a note on Epimerisation.	6
	(b)	Explain the classification of Carbohydrates.	4
9.	(a)	Discuss classification of amino acids.	6
	(b)	Explain determination of primary structure of proteins.	4
10.	(a)	What are Coenzymes ? Discuss their role in biological reaction.	6
	(b)	Explain the Receptor theory.	4
11.	(a)	Explain the Biological Role of RNA.	6
	(b)	What are lipids? Discuss biological importance of triglycerides.	4
12.	(a)	Outline the catabolic pathway of Carbohydrates.	6
	(b)	Write a note on Kreb's Cycle.	4

