	Code: D 122719		Total Pages: 2	Name:	
		10/200	and the second s	Register No	
SE	COND SEMEST	ER (CUF	YUGP) DEGREE EX	AMINATION, APRIL 2025	
			BIOCHEMISTRY		
	1		2MN101: Life molecu		
			24 Admission onwar		
Maximum Time :2 Hours				Maximum Marks :70	
			Section A		
All	Questions can b	e answer	ed. Each Question c Marks)	arries 3 marks (Ceiling : 24	
1	What is reducing sugar? Give one example.				
/	Compare and contrast the structures of glucose and fructose.				
/	Write a short note on	2-deoxy-β-I	O-ribofuranose.		
	What are glycosidic bonds? Explain with an example.				
i	What is a peptide bond? How is it formed?				
5/	Differentiate between	primary and	l secondary structures of pro	oteins.	
	Differentiate between nucleosides and nucleotides.				
}	Compare native PAGE and SDS-PAGE.				
9/	Differentiate between	phospholip	ids and sphingolipids.		
10/	What is the physiological significance of cholesterol?				
		525			

Section B

	Section 5			
AII	Questions can be answered. Each Question carries 6 marks (Ceiling : 36 Marks)			
11-	Explain the structure and biological significance of lactose and trehalose.			
12/	Describe the importance and structural organization of glycogen and starch.			
13	Compare the primary, secondary, and tertiary structures of proteins.			
114 .	What is Edman degradation? Explain its role in protein sequencing.			
15/	Explain the principles and applications of ion exchange chromatography.			
J 6	Compare and contrast spectrophotometry and colorimetry.			
17	Explain the classification of fatty acids with examples.			
18/	Describe the significance of essential fatty acids.			
	Section C			
	Answer any ONE. Each Question carries 10 marks (1x10=10 Marks)			
19	Discuss in detail the various types of carbohydrate isomerism with appropriate examples.			
20	Explain the Watson and Crick Model of DNA structure, and biochemical significance of nucleotide			