Na	ame		Printed I	Pages:01	
Stı	tudent Admn. No.:				
	School of Biological and Life Sciences Summer Term Examination – July - August 202	24			
	[Programme: BSC(H) Zoology 2021-22] [Semester: III) [Ba	atch:	]		
Co	ourse Title: Biochemistry and physiology	Ma	Max Marks: 100		
Co	ourse Code: B050201T		Time: 3 Hrs.		
Ins	astructions:  1. All questions are compulsory.				
	2. Assume missing data suitably, if any.				
		K Level	COs	Marks	
	SECTION-A (15 Marks) 5 Marks	arks each	I	I	
1.	• What are the four major classes of biomolecules? Give the example.	K1	CO1	5	
2.	What is the basic structure of an amino acid?	K1	CO1	5	
3.	Describe the structure of Sucrose. How does it differ from Glucose?	K2	CO2	5	
	SECTION-B (40 Marks) 10 Ma				
4.	· Compare the structure and roles of glycogen and cellulose?	K2	CO2	10	
5.	Outline the steps involved in glycolysis. What are the key enzymes and Product this pathway?	es of K3	CO2	10	
6.	. What are the different types of RNA, and what roles do they play?	K3	CO3	10	
7.	Explain the concept of protein denaturation. What conditions can cause enaturate	tion? K3	CO3	10	
	SECTION-C (45 Marks) 15	5 Marks each			
8.	Elucidate the biochemical defect in lactose intolerance in human body?	K4	CO4	15	
9.	What factors influence protein folding? How do chaperone proteins assist in this Process?	s K4	CO4	15	

10 Elucidate the principle behind SDS-PAGE and its application in protein analysis?

K4

CO5

15