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T	he Assam Royal Global University, Guwahati	
	Royal School of Pharmacy	
	B. Pharmacy II Semester	
	Semester End Examination, June 2023	
	Course Title: Biochemistry	
	Course Code: PHR232C203	
Time: 3 Hours	Maximum	Marks: 75
	Note: Attempt all questions as per instructions given.	
	The figures in the right-hand margin indicate marks.	
	Section – A	
1. Attempt all quest	ions. (Maximum word limit 50)	2.5 x 8=20
	acid along with its general properties.	
b. Enlist the fund	ctions of carbohydrates.	
c. Write about the	ne importance and significance of glycolysis pathway.	
d. Write a note of	on significance and energetics of Kreb's cycle.	
e. What is ketoa		
f. What is albini		
	ne types of RNA and its functions.	
ii. Define and cla	assify coenzyme with example.	
	Section – B	
2. Attempt any one of		13x1
	sify lipids with suitable example. Write in detail about functions	
of lipids and pr		
b. Define and class	ssify amino acid with suitable example and chemical structure.	
Write in detail	about functions of essential and non essential amino acid.	
. Attempt any two	8.	7x2
a. Write short note	on diabetes mellitus.	
b. Explain the citri	c acid cycle pathway.	
	on glycogen storage disease.	
. Attempt any two o	of the following:	7x2
a. Explain about at	herosclerosis and hypercholesterolemia.	10 000 2 - 10
	. Outline the bile acid synthesis pathway.	
c. Write a detail no		
. Attempt any two o	of the following:	7x2
	ynthetic pathway of pyrimidine nucleotide.	, 25.00
	e steps involved in purine biosynthesis.	
1	m parme orosymmesis.	

c. Define enzymes. Discuss briefly about enzyme kinetics.