KANYASHREE UNIVERSITY

M.Sc. 1st SEMESTER EXAMINATION 2022

Subject- Food and Nutrition

Course- CC -5

Nutritional Biochemistry

Full Marks-40

Time- 2.00 Hours

Group-A

	[Answer any four questions]	$5 \times 4 = 20$
1.	Write down Cori cycle.	5
2.	Compare between active transport and passive transport.	5
3.	Write down a short note on coenzyme.	5
4.	What is enzyme inhibition? Explain its significance.	5
5.	Briefly discuss the role of carnitine in the transfer of fatty acids.	5
6.	Briefly describe the steps of Urea Cycle.	5
7.	Enumerate the regulation of cholesterol biosynthesis.	5

Group-B

Answer any two	auestions	10 ×	2 = 20
1 mover any two	questions	10	

8. Describe the steps of Krebs cycle. Calculate the energy generation from one molecule of acetyl-coA. 7+3
9. Discuss the factors affecting the kinetics of enzymatic reaction. What is Isoenzyme? 7+3
10. What are aromatic amino acids? What do you mean by the term deamination and transamination? Write the irreversible steps in Glycolysis. 2+4+4
11. Write the energetics for β oxidation of one molecule of Palmitic acid. What is the difference between Substrate level phosphorylation and oxidative phosphorylation? 5+5