KANYASHREE UNIVERSITY

M.Sc. 1st SEMESTER EXAMINATION 2022

Subject- Food and Nutrition

Course- CC -2 **Food Chemistry**

Full Marks- 40 Time- 2.00 Hours

	Group-A	
	[Answer any four questions]	$5\times 4=20$
	1. Nutritional Significance of Branched Chain Amino Acid.	5
2	2. Write down a short note on Phytonutrients.	5
3	3. Discuss the role of Calcium and Vitamin D in healthy bone formation.	5
2	4. What are the functions of water and electrolytes in our body? Describe the	he role of folate
	in human nutrition.	2 + 3
4	5. Write down a short note on Microbial Polysaccharide.	5
(6. Co-enzyme activity of niacin. Major fluid compartments of the body.	3 + 2
•	7. Differentiate between the following sets of terms:	1×5
	 (iii) Amylose – Amylopectin. (iv) n–3 fatty acid – n-6 fatty (v) Intracellular fluid – Extracellular fluid. Group-B	acid.
	[Answer any two questions]	$10\times2=20$
8	8. Name two disaccharide present in our diet and give structure of them.	Write down the
	functions of lipoprotein in our body. Elaborate on the role of Vitan	nin K in blood
	coagulation. Discuss about the types of RNA.	2 + 3 + 2 + 3
Ģ	9. Discuss the role of dietary fibre in the production of short chain far	tty acid by gut
	microbiome. Write down the levels of protein structure.	5 + 5
	10. What do you mean by positive water balance? When does negative	water balance
	occur? How water balance is regulated in human body?	2 + 2 + 6
	11. Draw and structure any two aliphatic amino acid. Write in short about "I	Denaturation of
	Protein". What are essential fatty acids? Why fish oil is beneficial t	for maintaining
	healthy heart?	2 + 3 + 2 + 3