



B.Sc. Honours 1st Semester Examination, 2022-23



FNTACOR01T-FOOD AND NUTRITION (CC1)

Time Allotted: 2 Hours

Full Marks: 40

The figures in the margin indicate full marks.

Candidates should answer in their own words and adhere to the word limit as practicable.

		Answer any four questions from the following	$10\times4=40$
1.	(a)	What are phytochemicals and how are they beneficial for physiological system?	1+2
	(b)	Define thermic effect of food and explain the factors affecting it.	2+3
	(c)	Give the percentage of Kilocalories that should come from carbohydrate, fat and protein in a balanced diet.	2
2.	(a)	What is the difference between PAR and PAL?	2
	(b)	What do you mean by REE?	2
	(c)	Define RQ.	2
	(d)	What is energy balance?	2
	(e)	What do you mean by malnutrition?	2
3.	(a)	Discuss briefly the digestion and absorption mechanism of carbohydrate.	4+4
	(b)	What do you mean by chylomicron?	2
4.		Write a short note on the toxic effects of excess consumption of vitamin-D. Discuss the four food group system suggested by ICMR and explain the importance of it.	5+5
5.	(a)	Give the advantages of pressure cooking.	2
	(b)	Compare shallow fat frying and deep fat frying methods.	2
	(c)	Define poaching. Bring out the advantages of it.	2+2
	(d)	How is heat transferred in baking?	2
6.	(a)	What is emulsification of fat?	2
	(b)	Differentiate between gall bladder bile and liver bile.	2

CBCS/B.Sc./Hons./1st Sem./FNTACOR01T/2022-23

	(c)	What is the role of bile in food digestion?	2
	(d)	Write the composition of gastric juice.	2
	(e)	What do you understand by enterohepatic circulation?	2
7.	(a)	Explain the functions of calcium.	4
	(b)	Give five sources of riboflavin.	2
	(c)	Which vitamin is known as antiberiberi vitamin?	2
	(d)	What do you mean by Wilson's disease?	2
8.	(a)	Mention the differences between probiotic and prebiotic.	2
	(b)	What is favism?	2
	(c)	Compare the nutritive value of rice and wheat.	2
	(d)	What is meant by dietary fibre? Explain its functional significance.	1+3
9.	(a)	Define balanced diet.	2
	(b)	In which aspects fish is superior to meat?	2
	(c)	How does cooking vegetables affect its vitamin content? How can this loss be minimized or prevented?	2+2
	(d)	What is MSG?	. 2

____×___