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B.M.S. College of Engineering, Bengaluru-560019

Autonomous Institute Affiliated to VTU

July 2023 Semester End Main Examinations

Program: B.E.

Semester: VI

Branch: Institutional Elective

Duration: 3 hrs.

Course Code: 19BT6OEHAN

Max Marks: 100

Course: HEALTH AND NUTRITION

Date: 07.07.2023

Instructions: 1. Answer any FIVE full questions, choosing one full question from each unit.
2. Missing data, if any, may be suitably assumed.

			UNIT – I	CO	PO	Marks
Important Note: Completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages. Revealing of identification, appeal to evaluator will be treated as malpractice.	1	a)	Describe in detail the way in which carbohydrate metabolism pathway interrelates with protein and lipid metabolism pathway.	CO2	PO1	10
		b)	Explain the following: i) Global Malnutrition ii) Relationship between nutrition science and practice	CO1	PO	10
OR						
	2	a)	Elaborate on milestones in development of nutrition as a science.	CO1	PO	10
		b)	Give your perception with suitable explanation on the following: i) Future challenges for nutrition research ii) A Global perspective on food and nutrition	CO2	PO1	10
			UNIT – II			
	3	a)	Explain in detail any one indirect method of assessing body composition.	CO3	PO2	10
		b)	Enumerate on the methods used to determine daily intake requirements in order to derive most accurate dietary recommendations.	CO2	PO1	10
			UNIT-III			
	4	a)	Discuss the mode of action, essentiality, deficiency disorders and dietary sources of any two vitamins.	CO2	PO1	10
		b)	Write a short note on the following: i) Essential trace elements and their functions. ii) Metabolic functions and disorders of any two minerals.	CO2	PO1	10
			UNIT – IV			
	5	a)	Distinguish between different types of nutritive and nonnutritive sweeteners.	CO2	PO1	10

	b)	What are food colours? Classify food colours and enlist its uses.	<i>CO1</i>	<i>PO</i>	10
		UNIT – V			
6	a)	Elucidate the sociocultural factors influencing the food choice and food habits for sustainable healthy diet.	<i>CO2</i>	<i>PO1</i>	10
	b)	Enumerate the following: i) Nutrition Promotion ii) Nutrition labeling	<i>CO1</i>	<i>PO</i>	10
		OR			
7	a)	Elaborate on recommended dietary goals and guidelines in developed countries.	<i>CO1</i>	<i>PO</i>	10
	b)	Distinguish and explain the characteristics of the following: i) EAR ii) Tolerable upper intake level	<i>CO2</i>	<i>PO1</i>	10

B.M.S.C.E. - EVEN SEM 2020-21