Reg. No. | | | | | | | | | | | |

| Question Paper Code | 12217 |

B.E. / B.Tech - DEGREE EXAMINATIONS, NOV / DEC 2023
Seventh Semester
Computer Science and Engineering
20CYOE904 - FUNDAMENTALS OF NUTRITION
(Regulations 2020)

Duration: 3 Hours   Max. Marks: 100

PART - A (10 × 2 = 20 Marks)
Answer ALL Questions

		Marks, *K-Level, CO*
1.	Why pregnant women need additional nutrients?	*2,K2,CO1*
2.	What do you understand by the term nutrition?	*2,K2,CO1*
3.	What is meant by digestion?	*2,K2,CO2*
4.	What are the functions of bile?	*2,K2,CO2*
5.	Define glycemic index.	*2,K1,CO3*
6.	What is hyperglycemia?	*2,K2,CO3*
7.	Define food enzyme.	*2,K1,CO4*
8.	Write the main functions of fats.	*2,K2,CO4*
9.	Define BMI.	*2,K1,CO5*
10.	What is meant by energy balance?	*2,K2,CO5*

PART - B (5 × 13 = 65 Marks)
Answer ALL Questions

11.	a)	Write a note on Atwater method and Bomb Calorimetric methods for calculating energy.	*13,K2,CO1*
		OR	
	b)	Explain the six classes of nutrients, sources and their function.	*13,K2,CO1*
12.	a)	What are the major digestive organs, and which organs are the accessory digestive organs?	*13,K2,CO2*
		OR	
	b)	What are the enzymes and their role involved in the digestion of food?	*13,K2,CO2*
13.	a)	Explain any three Artificial sweeteners in detail.	*13,K2,CO3*
		OR	
	b)	Write in detail about NIDDM and IDDM.	*13,K2,CO3*

K1 – Remember; K2 – Understand; K3 – Apply; K4 – Analyze; K5 – Evaluate; K6 – Create   **12217**

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14. a) Explain texturized proteins & how they act as a meat substitute. *13,K2,CO4*

OR

b) Define protein. List the sources of protein and give its functional role. *13,K2,CO4*

15. a) Write note on
(i) Hunger,
(ii) Satiety,
(iii) Satiation. *13,K2,CO5*

OR

b) Write a detailed note about obesity and its effects. *13,K2,CO5*

PART - C (1 × 15 = 15 Marks)

16. a) (i) What is protein malnutrition? Explain their short and long term effects? *8,K2,CO4*
(ii) Explain in detail about Pharmaceutical grade with suitable examples. *7,K2,CO5*

OR

b) (i) What do you understand about fat replacement? *8,K2,CO4*
(ii) Write note on weight loss schemes. *7,K2,CO5*