				R	eg. No.											
			Question Pa	aper Code	1	12207										
B.E. / B.Tech DEGREE EXAMINATIONS, NOV / DEC 2023 Seventh Semester Computer Science and Engineering 20CEOE902 - HUMAN NUTRITION AND HEALTH (Regulations 2020)																
Duration: 3 HoursMax. MarPART - A (10 × 2 = 20 Marks) Answer ALL Questions																
1.	Def	fine the term	nutrition.									1		rks, e l, CO ,CO1		
2.	Calculate the energy value of 30gms pulses, 70gms rice and 10gms oil.											2,K2,CO1				
3.	List the various sources of carbohydrates.											2,K1,CO2				
4.	What is meant by the Biological Value (BV)?												2,K1,CO2			
5.	Why is a mixture of oils recommended for daily consumption?											2,K1,CO3				
6.	Define vitamins and classify them.												2,K1,CO3			
7.	List the various factors affecting BMR.											2,K1,CO4				
8.	Give the formula for BMI.												2,K1	,CO4		
9.	What are the advantages of menu planning?											2,K1,CO5				
10.	List the 5 basic food groups.												2,K1	,CO5		
11.	 PART - B (5 × 13 = 65 Marks) Answer ALL Questions 1. a) Write the principles for deriving RDA. Discuss any five importance of RDA. 											of	of 13,K2,CO1			
	1 \	F 1 · 1	0	OR									12 V'			
	b)	Explain the	functions of c	arbohydrate	es in our	body	<i>.</i>						13,12	2,CO1		
12.	a)	Explain clas	composi	osition and quality.						13,K2,CO2						
	b)	Explain anii	nal, plant and	invisible fo	ood sour	ces of	f fats.						13,K2	2,CO2		
13.	a) Classify mineral elements, giving two examples for each. OR											13,K2,CO3				
	b)	Explain abo	ut water solub	le vitamins	and fat	solub	ole vit	tam	nins	•			13,K2	2,CO3		
K1 – Remember; K2 – Understand; K3 – Apply; K4 – Analyze; K5 – Evaluate; K6 – Create 12207 1													7			

- 14. a) (i) Calculate energy required for basal metabolism for an adult ^{7,K3,CO4} woman of 25 years old, weight 50kg, Height 155cm.
 - (ii) Demonstrate on the various units of measurement associated with 6,K3,CO4 energy.

OR

- b) Justify the statement- Physical activity increases the energy ^{13,K3,CO4} requirement above the basal metabolism.
- 15. a) List the five basic groups giving five examples for each. Explain the *13,K2,C05* main nutrients provided by each group.

OR

- b) Describe the following and state when it is prescribed 13,K2,C05
 - (i) Balanced Diet.
 - (ii) Clear liquid diet.
 - (iii) Full liquid diet.
 - (iv) Low residue diet.

PART - C $(1 \times 15 = 15 \text{ Marks})$

16. a) Explain why knowledge of nutrition and food processing is essential ^{15,K2,CO6} for people who prepare or manufacture food.

OR

b) Explain the disadvantages of consuming ready-to-serve and ready-to- 15,K2,CO6 cook foods.