0201N1449

M.Sc. Sem.-1 Examination 404

Food Sciences & Nutritions January-2024

Time: 2-30 Hours]

[Max. Marks: 70

Instructions: Illustrate your answers with neat diagrams wherever necessary.

Q. 1	Write the following	
(i) (ii)	Define RDA and give the principles of deriving nutrient requirement. Enlist direct and indirect methods of body composition analysis and describe skinfold measurement in detail.	(7)(7)
	OR	
(i) (ii)	The state of the s	(7) (7)
Q.2	Write the following	
(i)	Explain the term "protein quality". Enlist methods of protein quality evaluation. Discuss Non biological methods in detail.	(7)
(ii)	How do the mechanisms of sodium-dependent and sodium-independent transport differ in the absorption of monosaccharides, and what factors influence the rate of monosaccharide absorption?	(7)
	OR	
(i)	Discuss the digestion and absorption of protein in human body	(7)
(ii)	Describe lactose intolerance, including its symptoms and the diagnostic tests used to assess lactose digestion.	(7)
Q. 3	Write the following	
(i)	Write a brief note about factors enhancing and factors inhibiting absorption of non-haeme iron.	(7)
(ii)	Write a note on the visual cycle and discuss the role of vitamin A in normal vision.	(7)
	OR	` /
(i)	Write a brief note on the functions of Vitamin E in the human body	(7)
(ii)	Discuss in detail the deficiency disorders of Riboflavin.	(7)
Q. 4	Write the following	
(i)	What are the components of energy expenditure? Explain in detail.	(7)
(ii)	What is BMR? Explain factors affecting BMR.	(7)
	OR	
(i)	Explain dual centre theory in detail.	(7)
(ii)	Evaluin get point theory in Just 1	(7)

		(14)
Q. 5	Attempt any seven out of twelve	
V. C	Write two functions of phosphorus?	
(i)	How much iron does hemoglobin contain?	
(ii)	Differentiate between fat free mass and lean body mass.	
(iii)	Write a short note on Very long chain fatty acids.	
(iv)	Write a short note on Cis versus Trans fatty acids.	
(v) (vi)	Define nutritional blindness. How can it be prevented?	
(vii)	Define: Cori cycle	
(viii)	What is positive and negative nitrogen balance? Define hypervitaminosis. Why do fat-soluble vitamins pose a greater risk of	
(ix)	Agricity?	
(-)	Write any two difference between essential and non-essential amino acids?	
(x)	Write RDA of sodium?	
(xi)		
(xii)	What is EEPA?	