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RNLKWC/B.Sc.-CBCS/IS/NUT/H/C2T/22

2022

Nutrition

[HONOURS]

(CBCS)

(B.Sc. First Semester End Examination-2022)

PAPER-C2T

*Full Marks: 40*

*Time: 02 Hrs*

*The figures in the right hand margin indicate marks*

*Candidates are required to give their answers in their own words as far as practicable*

*Illustrate the answers wherever necessary*

**Group-A**

1. Answer any five questions of the following: 5x2=10
- a) Define fatty acids. 2
  - b) Define 'Nutraceutical'. 2
  - c) Write the basic structural difference between glucose and fructose. 2
  - d) What are the foods rich in vitamin K? 2
  - e) What is codon? What are start codon and stop codon? 2
  - f) Give the general structure of amino acids. 2
  - g) Define saturated and unsaturated fatty acids. 2
  - h) Define 'Epimerism' and 'Anomerism' 2

(2)

**Group-B**

2. Answer any four questions of the following: 4x5 = 20
- a) Give the classification of Proteins based on their solubility and composition. 5
  - b) Classify carbohydrates with their examples. 5
  - c) Write the nutritional importance of W-3 fatty acids. 5
  - d) Write the different clinical signs of vitamin A deficiency (VAD). 5
  - e) What do you mean by 'Biological value of a protein'. Explain with example. 5
  - f) What is 'Beri Beri'? What are the symptoms of 'Beri Beri'? 2+3

**Group -C**

3. Answer any one question: 1x10 = 10
- a) i) Write the requirement of dietary fibre for adult man and woman.
  - ii) Why is dietary fibre not digested in our GI tract?
  - iii) Define functional food.
  - iv) Which bioactive compound is present in grapes and oranges?
  - v) Define Essential and Non-essential amino acids.
  - b) i) Write the functions of sodium and potassium in our body.
  - ii) Draw the chemical structure of linoleic acid.
  - iii) Write the Co-enzyme activity of 'Pantothenic Acid'. 5+2+3