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[This question paper contains 4 printed pages.]

Your Roll No.....

Sr. No. of Question Paper : 3812

I

Unique Paper Code : 2176000001

Name of the Paper : SEC: Essential Food Nutrients

Name of the Course : All Undergraduate Courses

Semester : I/III/V

Duration : 1 Hours

Maximum Marks : 30

Instructions for Candidates

1. Write your Roll. No. on the top immediately on receipt of this question paper.
2. Attempt any two questions in all.
3. Each Question carries equal marks.

1. (a) Explain the role of carbohydrates as sweeteners in the food industry.

P.T.O.

(b) Discuss the significance of proteins in human diets with suitable examples.

(c) Define the saturated and unsaturated fatty acids. write two examples of each. (5, 5, 5)

2. (a) Define the term carbohydrates. Why they are considered essential food for humans.

(b) Define the peptide bond. Show that the amino acids arranged in head to tail manner in peptide chains.

(c) Write short notes on:

(a) Flavour Reversion

(b) Trans fats

(5, 5, 5)

3. (a) Define minerals. Write the roles of Zinc (Zn) and Cobalt (Co) in the human body.
- (b) Define the derived lipids. Why they are significant for the human body?
- (c) Describe the role of plant proteins in human diet and their suitable sources. (5, 5, 5)
4. (a) What do you understand by essential vitamins. Write the importance of any two vitamins.
- (b) Write the key difference between primary, secondary and tertiary structures of protein.

(c) Write short notes on:

(a) Disaccharides

(b) Rancidity

(5, 5, 5)