

[This question paper contains 2 printed pages.]

28 JUL 2023

Your Roll No.



Sr. No. of Question Paper : 1714

Unique Paper Code : 2176000001

Name of the Paper : Essential Food Nutrients

Name of the Course : B.Sc. (Hons)/ B.Sc. (Prog)
- SEC:

Semester : II

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. **All** questions carry equal marks.
-
1. (a) Write short notes on the following (**any two**) :
 - (i) Saponification value
 - (ii) Dental plaque
 - (iii) Galactosemia
 - (b) What is carbohydrate metabolism? Write the role of carbohydrates as sweeteners in food.

P.T.O.

- (c) What are essential fatty acids (EFA)? Give examples along with their dietary sources.

(5,5,5)

2. (a) What are Proteins? Draw the primary, secondary, and tertiary structures of protein.

- (b) Write the names of any four water-soluble vitamins. Write down their dietary sources. Write down structure of any one of the water-soluble vitamins.

- (c) What are the food sources of iron? What happens due to iron deficiency? Explain in details. (5,5,5)

3. (a) Why minerals are also important for human health like vitamins? What are the main functions of calcium and magnesium as mineral in human body?

- (b) Differentiate between fats, oils and waxes. Write down the names of any two wax along with their common usage.

- (c) Write down the structure of **any two** :

(i) Galactose

(ii) Fructose

(iii) Sucrose

(5,5,5)

(1000)