

3. (a) Write short notes on following (Do any **two**) :
- (i) Iodine value
 - (ii) Disaccharides
 - (iii) Polysaccharides
- (b) What is the role of fibre in our diet? Explain.
- (c) Explain primary and secondary structure of proteins in detail. (5,5,5)
4. (a) Write short notes on the following (Do any **two**) :
- (i) Vitamin C deficiency
 - (ii) Simple lipid
 - (iii) Galactosemia
- (b) Describe reducing and non-reducing sugars. Explain with examples.
- (c) What diseases are caused by the deficiency of Lipids? (5,5,5)

(300)

[This question paper contains 4 printed pages.]

Your Roll No.....

Sr. No. of Question Paper : 3876

J

Unique Paper Code : 2176000001

Name of the Paper : SEC: Essential Food Nutrients

Name of the Course : All Undergraduate Courses

Semester : II / IV / VI

Duration : 1 Hour

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.
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1. (a) Answer the following multiple-choice questions :
 - (i) Which of the following is a monosaccharide?
 - (a) Sucrose
 - (b) Glucose

P.T.O.

- (c) Lactose
 - (d) Maltose
- (ii) Which of the following food components is required for the growth and maintenance of the human body?
- (a) Proteins
 - (b) Vitamins
 - (c) Minerals
 - (d) Both (a) and (b)
- (iii) Which of the following food items provides dietary fibre?
- (a) Pulses
 - (b) Wholegrain
 - (c) Fruits and vegetables.
 - (d) All of the above
- (iv) Which of the following mineral helps in building strong bones and teeth?
- (a) Iodine
 - (b) Calcium

- (c) Iron
 - (d) Sodium
- (v) Which of the following food components is rich in fat?
- (a) Rice and Maize
 - (b) Milk, egg and beans
 - (c) Butter, cheese and oil
 - (d) None of the above
- (b) What is the primary function of carbohydrates in the body? And also explain the sources and deficiencies of carbohydrates.
- (c) Explain the sources and classification of lipids. (5,5,5)
2. (a) What are proteins? What are the important functions of proteins?
- (b) Discuss in detail macro minerals and micro minerals?
- (c) Differentiate between fats and oils. What is the significance of saponification value? (5,5,5)