

(b) How saturated fatty acids are different from unsaturated fatty acids, which is more beneficial for health and why?

(c) Write short notes on :

(i) Denaturation of Proteins

(ii) Proteins as complex molecules (5,5,5)

[This question paper contains 4 printed pages.]

Your Roll No.....

Sr. No. of Question Paper : 3917

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 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. Each Question carries equal marks.
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1. (a) Mention different sources of Plant protein and Animal Proteins. Also discuss any two functional properties of Proteins.

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- (b) (i) If peanut oil has an iodine value of 82-107 while coconut oil has iodine value of 7.7-10.5, what inference do you get with these values?

(ii) Write the principle and significance of saponification value.

- (c) Write the significance of magnesium as macro-minerals and mention its natural sources.

(5,5,5)

2. (a) Mention at-least two food items where you find following sugars :

Fructose, Glucose, Lactose, Sucrose, Maltose b
Write short notes on

- (i) How auto oxidation of fats can be prevented
(ii) Effect of trans fats on health

- (c) Match the following :

1. Vitamin C	a. Synthesise prothrombin
2. Vitamin A	b. Ascorbic acid
3. Vitamin K	c. Antisterility
4. Vitamin D	d. Nightblindness
5. Vitamin E	e. Calciferol

(5,5,5)

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3. (a) How food allergy is different from food intolerance. Give the main reasons for Galactosemia and Lactose intolerance.

(b) Mention the reasons for Rancidity and its effect on health.

- (c) How essential amino acids are different from non-essential amino acids, why they are called building blocks, and which linkage is responsible to make them building blocks.

(5,5,5)

4. (a) State true and false

(i) Excess sugar is stored in form of glycogen in human body

(ii) Peptide bond is responsible to join amino acids as building block for Proteins

(iii) Good cholesterol and Bad Cholesterol are equally needed in human body

(iv) Calcium is micromineral whereas Iron is considered as micromineral

(v) Energy is stored in form of ATP and its full form is Adenosine Tri Phosphate

P.T.O.