

Q.22 Write a short note on fatty acids?

**SECTION-D**

**Note:** Long answer type questions. Attempt any two questions out of three questions. (2x8=16)

Q.23 Define proteins? Explain nutritional importance and deficiency disorder of proteins?

Q.24 Define vitamins? Explain sources and functions of fat soluble vitamins?

Q.25 Define water activity? And also explain importance of water activity in food production?

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**2nd Sem. / Food Technology**

**Subject : Food Chemistry and Nutrition**

Time : 3 Hrs.

M.M. : 60

**SECTION-A**

**Note:** Multiple choice questions. All questions are compulsory (6x1=6)

Q.1 What is the main macronutrient responsible for providing energy in food?

- a) Proteins                      b) Vitamins
- c) Carbohydrates              d) Minerals

Q.2 Which of the following is a water soluble vitamin found in citrus fruits?

- a) Vitamin A                      b) Vitamin C
- c) Vitamin D                      d) Vitamin K

Q.3 What is the function of lipids in food chemistry?

- a) Providing quick energy
- b) Building muscle tissues
- c) Enhancing flavor
- d) Storing and releasing energy, and forming cell membranes

- Q.4 A tomato gets its red color from
- a) Beta carotene                      b) Fructose
  - c) Lycopene                          d) Limonene

Q.5 A function of vitamin K would be:

- a) Fatty Acid transport
- b) Cell membrane integrity
- c) Blood Clotting factor
- d) Increase immune system response

Q.6 This nutrient makes up 75% of your body

- a) Vitamin A                          b) Water
- c) Carbohydrates                      d) Protein

### SECTION-B

**Note:** Objective/ Completion type questions. All questions are compulsory. (6x1=6)

- Q.7 Which of the nutrient is known as the “SUNSHINE VITAMIN”?
- Q.8 Fruits and vegetables are usually considered as good sources of\_\_\_\_\_.
- Q.9 A food with 30% moisture content will have \_\_\_\_\_% total solids.

Q.10 Moisture content of food can be analyzed via oven drying method. (True/False)

Q.11 Full form of RDA?

Q.12 Name the deficiency disease of Iron?

### SECTION-C

**Note:** Short answer type questions. Attempt any eight questions out of ten questions. (8x4=32)

- Q.13 Define food? And explain Food Guide Pyramid with diagram?
- Q.14 Define minerals? Explain functions of minerals in general?
- Q.15 Define enzymes? And their classification?
- Q.16 Draw structure of a water molecule? And explain functions of water?
- Q.17 Write a short note on “food pigments”? How they are useful?
- Q.18 Define fats? Explain classification of fats?
- Q.19 Difference between water soluble and fat soluble vitamins?
- Q.20 Write deficiency disorder of vitamins and minerals?
- Q.21 Define nutrition? Write inter-relationship between nutrition and health?