

- Q.24 What are food additives? Give example of some important food additives with their function?

Q.25 Write a note on water activity?

Q.26 Explain the importance of food groups?

Q.27 Define vitamins and explain deficiency disease of vitamin A?

Q.28 Explain the function of iron and zinc?

Q.29 Explain the nomenclature of enzymes?

Q.30 Classify Carbohydrates?

Q.31 Classify fats with suitable examples?

Q.32 What is protein efficiency ratio?

Q.33 Explain the sources and functions of Calcium?

Q.34 Explain briefly “Colloidal Chemistry”?

Q.35 Why minerals are important for humans?

## **SECTION-D**

**Note:** Long answer type questions. Attempt any two questions out of three questions. (2x10=20)

- Q.36 Explain basic composition of proteins? Explain the sources, nutritional and industrial importance of Proteins?

Q.37 Define vitamins and give sources and functions of water-soluble vitamins?

Q.38 Explain in detail the sources and classification of enzymes?

No. of Printed Pages : 4 181132/121132/031132  
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# **3rd Sem / Branch : Food Technology**

## **Subject:- Food Chemistry and Nutrition**

Time : 3Hrs. M.M. : 100

M.M. : 100

## **SECTION-A**

**Note:** Multiple choice questions. All questions are compulsory (10x1=10)

- Q.1 That food components that are essential to maintain the health and contribute to the growth of the body are known as:

  - a) Starch
  - b) Nutrient
  - c) Vitamin
  - d) Scurvy

Q.2 Butter and margarine are examples of \_\_\_\_\_ solution

  - a) Colloidal
  - b) Emulsion
  - c) Gel
  - d) None of these

Q.3 Beriberi is deficiency disease of

  - a) Vitamin B1
  - b) Vitamin B6
  - c) Vitamin D
  - d) Niacin

Q.4 Which of the following is untrue?

  - a) A gram of carbohydrate or protein contains 4 calories
  - b) A gram of fat contains 9 calories
  - c) A gram of fat contains 5 calories
  - d) None of the mentioned

Q.5 Which of the given food items is rich in plant proteins?

- a) Cheese
- b) Milk
- c) Legumes
- d) Egg

Q.6 Fats are composed of:

- a) Oxygen, nitrogen and hydrogen
- b) Carbon, sulphur and hydrogen
- c) Carbon, hydrogen and oxygen
- d) Carbon, sulphur and nitrogen

Q.7 Which of the following minerals controls growth and body weight?

- a) Iodine
- b) Calcium
- c) Phosphorous
- d) All of the above

Q.8 Which of the following statements is true about proteins?

- a) Proteins are made up of amino acids
- b) Proteins are essential for the development of skin, teeth and bones
- c) Protein is the only nutrient that can build, repair and maintain body tissues.
- d) All of the above

Q.9 Which of the following food components does not provide any nutrients?

- a) Milk
- b) Water
- c) Fruit juice
- d) Vegetable soap

Q.10 Potatoes, Cereals, Beans, Pulses and oats are rich in \_\_\_\_\_.

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

### SECTION-B

**Note:** Objective type questions. All questions are compulsory. (10x1=10)

Q.11 Name three macro chemicals components of food?

Q.12 Which chemical found in food is called a universal solvent?

Q.13 Cheddar is a type of \_\_\_\_\_ belonging to food group\_\_\_\_\_

Q.14 What is kwashiorkor?

Q.15 What is the range of water activity?

Q.16 What is Rickets?

Q.17 Full form of MUFA?

Q.18 Define triglycerides?

Q.19 Name two rich sources of Vitamin C.

Q.20 Full form of PER?

### SECTION-C

**Note:** Short answer type questions. Attempt any twelve questions out of fifteen questions. (12x5=60)

Q.21 What is the scope of food chemistry?

Q.22 What is the balanced diet? Explain.

Q.23 What is the importance and sources of different plant pigments?