

B.Sc. FOOD SCIENCE & TECHNOLOGY
First Semester
PRINCIPLE OF HUMAN NUTRITION
(BFST- 103)

Duration: 3Hrs.

Full Marks: 70

Part-A (Objective) =20
Part-B (Descriptive) =50

(PART-B: Descriptive)

Duration: 2 hrs. 40 mins.

Marks: 50

Answer any four from Question no. 2 to 8
Question no. 1 is compulsory.

1. Define Nutrition. What are the types? Give examples of nutritional disorders along with their clinical symptoms and prevention. (1+4+5=10)
2. Explain Food groups with examples. How does food guide pyramide help in planning a balanced diet? Write the ICMR health guidelines. (3+3+4=10)
3. What is Dietary Fibre? Write their significances in human health. Write the physiological role of water. (2+5+3=10)
4. What is Translation? Write the biosynthesis of protein in eukaryotes. Explain with diagram. (2+8=10)
5. What you mean by deamination of amino acid? Explain. Write the classification of amino acids. (4+6=10)
6. Write the classification of lipid. Explain the types of spoilages found in fats and oils products. (5+5=10)
7. Define Digestion. Explain the digestion of carbohydrate and lipid in human body. Give diagram. (2+4+4=10)
8. Write the biochemical functions of calcium(Ca) and iron(Fe). Write the absorption of iron in human body. (7+3=10)

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Duration: 20 minutes

Marks – 20

(PART A - Objective Type)

I. Fill in the blanks:

1×5=5

- a)is an artificial sweetener.
- b)is an example of incomplete protein.
- c) Bond angle of water is.....
- d)and..... interfere with Fe absorption.
- e)is an example of essential fatty acid.

II. Answer the following:

1×5=5

- a) What is peristalsis?
- b) What is Rancidity?
- c) Which is the most abundant mineral found human body?
- d) In which form iron is absorbed in human body?
- e) Give an example of basic amino acid.

III. Write true or false:

1×5=5

- a) Lactose is a monosaccharide.
- b) Cellulose is breakdown by lipase enzyme.
- c) Amylase act on the alpha 1,4 linkage of glucose molecule.
- d) Pepsin is endopeptidase.
- e) zein is an example of complete protein.

IV. Write abbreviation of the following:

1×5=5

- a) ICMR :
- b) MOFPI :
- c) FSSAI :
- d) PUFA :
- e) BMR :
