

**SET
A**

B.Sc. FOOD SCIENCE & TECHNOLOGY
FIRST SEMESTER
FOOD CHEMISTRY
BFST-102 (IDMn)
[USE OMR SHEET FOR OBJECTIVE PART]

Duration: 1hr. 30 mins.

Full Marks: 35

Time: 15 mins.

Marks: 10

(Objective)

Choose the correct answer from the following:

$1 \times 10 = 10$

1. The term pH stands for:
a. Power of Hydrogen b. Presence of Hydrogen
c. Positive Hydrogen d. Potential of Hydrogen

2. The water activity (a_w) of pure water is:
a. 1.0 b. 0.92
c. 0.71 d. 0.54

3. The emulsifier used in Mayonnaise is:
a. Milk b. Sugar
c. Egg White d. Egg Yolk

4. The diet which contains the required essential nutrients in the right proportions is:
a. Soluble diet b. Insoluble diet
c. Balanced diet d. Opsin diet

5. Number of Carbon atoms present in glucose is:
a. 5 b. 6
c. 7 d. 8

6. Citrus fruits such as oranges, kiwi, lemon, grapefruit etc. are good source of:
a. Vitamin A b. Vitamin B
c. Vitamin C d. Vitamin K

7. Which of the following statements is true about proteins?
a. Proteins are polymers of glucose b. Proteins are polymers of amino acids
c. Proteins are polymers of peptide bonds d. Proteins are polymers of disulfide bridges

8. The general mechanism is that an enzyme acts by:
a. Reducing the activation energy b. Increasing activation energy
c. Decreasing pH value d. Increasing the pH value

9. Which of the following is not an example of flavoring agent?
a. Chocolate b. Strawberry
c. Vanilla d. Salol

10. Which sentence is untrue with respect to the human body?
- a. Unconsumed water broken → fats
 - b. Carbohydrates broken → Sugars
 - c. Proteins broken down → Amino acids
 - d. Fats broken down → Fatty acids and glycerol
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(**Descriptive**)

Time : 1 hr. 15 mins.

Marks : 25

[Answer question no.1 & any two (2) from the rest]

1. Describe the importance of food chemistry in analysis and processing of food. 5
2. Define and classify carbohydrates with examples. 3+7=10
3. Elaborate the mode of action of enzymes with suitable diagram. 10
4. What are proteins? Briefly explain its structure. 3+7=10
5. Write a note on stability of water-soluble vitamins. 10

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