



Roll no.....

End Semester Examination, December 2024
B.Sc. Forensic Science- Third Semester
Biology III BSFS205A

Time: 2.5 hrs.

Max Marks: **50**

Note: **All Questions are compulsory.** Marks are indicated against each question.

PART-A

Q1. Attempt any five questions: [CO-1] [L-1] **2**

- Explain the basic concept of food and nutrition.
- Describe the importance of a balance diet.
- Identify two macronutrients and their role in human health
- Differentiate between macro nutrients and micronutrients
- Discuss the impact of nutrient needs for infants and elderly individuals
- Explain the term food adulteration with example
- List any 2 physiological considerations for nutrition in pregnant women

Q2. Analyze the components of a balanced diet and explain how each component contributes to overall health. [CO-2] [L-4] **10**

OR

Discuss the biochemical role of vitamins and minerals in maintaining health. Provide examples of food sources for each.

Q3. Explain the structure, classification and role of carbohydrates in metabolism. [CO-3] [L-5] **10**

OR

Discuss the metabolic pathway of protein and how they are utilized in cellular respiration.

Q4. Describe the function of enzymes in biochemical reactions and discuss the factors that affect enzyme activity. [CO-4] [L-4] **10**

OR

Explain the importance of protein structure and how it influences enzyme function. Provide examples of enzyme related processes.

Q5. Explain about lipids and discuss its classification, structure and properties [CO-5] [L-5] **10**

OR

Explain about proteins and discuss its classification, structure and properties