Daffodil International University
Department of Agricultural Science
Faculty of Agriculture Sciences
Mid-term Examination, Summer– 2026

Course Code: 0815-1105 Course Title: Biochemistry I (General Biochemistry)
Section: 261 All Level-Term: L1-T2 Teacher's Initial: MSA
Full Marks: 25 Time: 1 Hour 30 Minutes

"Split answering is strictly prohibited"

1. (a) Define cell. Describe the structure and functions of the nucleus with a labeled diagram. PLO1 CLO1 C1 4

   (b) Draw and label a plant cell diagram. PLO3 CLO2 C3 1

2. (a) The cell wall is a distinctive characteristic of plant cells and plays an important role in maintaining their shape. Describe the cell wall with a proper diagram and explain its functions. PLO1 CLO2 C3 4

   (b) Draw and label a diagram of a chloroplast. PLO3 CLO2 C3 1

3. (a) Using your knowledge of proteins, briefly explain amino acids and peptide bonds. PLO2 CLO2 C3 3

   (b) Define protein and mention two basic functions of it. PLO4 CLO2 C1 2

4. Analyze the roles of terpenoids in plants and discuss their applications in the pharmaceutical and food industries. PLO4 CLO5 C4 5

5. (a) Explain the role of alkaloids or phenolic compounds in the food industry. PLO4 CLO2 C2 3

   (b) Write about the structure of proteins. PLO5 CLO3 C2 2

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