



Daffodil International University
Department of Agricultural Science
Faculty of Health & Life Sciences
Mid-term Examination, Fall 2025

Course Code: **0815-1105**

Section: A, B

Full Marks: 25

Course Title: Biochemistry-I (General Biochemistry)

Level-Term: L1T2

Teacher's Initial: DFB, DRH

Time: 1 Hour 30 Minutes

"Split answering is strictly prohibited"

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| Q1. Define a cell. Draw and label a neat diagram of a typical plant cell. | (PLO1, CLO1, C1, C2) | 1+3 |
| Q2. Explain, with suitable examples, why humans cannot digest cellulose whereas some animals can. | (PLO1, CLO5, C2) | 3 |
| Q3. Discuss the applications of carbohydrates in biological and industrial systems. | (PLO1, CLO5, C2) | 3 |
| Q4. Define nucleic acids. Differentiate between DNA and RNA based on their structure and function. | (PLO1, CLO2, CLO5, C1, C4) | 1 + 3 |
| Q5. Describe plant proteins. Explain the importance of proteins, amino acids, and enzymes in biological systems. | (PLO1, CLO5, C1, C2) | 2 + 3 |
| Q6. Define carbohydrates with their structural details. Classify carbohydrates based on their structure and provide definitions, chemical formulas, and examples for each class. | (PLO1, CLO2, C1, C2) | 1 + 5 |