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Daffodil International University

Department of Agricultural Science

Faculty of Health & Life Sciences

Final Examination, Semester: Fall 2025

Course Title: Biochemistry-I (General Biochemistry)

Course Code: 0815-1105 Section: A, B, C Course Teacher: DFB, DRH

Level & Term: L-1, T-2 Full Marks: 40

Time: 2 Hrs

"Split answering is strictly prohibited"

Q1.	Mention the major area of study of biochemistry and importance of biochemistry.	CLO1, C2	3
Q2.	a) Define primary metabolites with examples.	CLO2, C1	3
	b) Evaluate the difference between primary and secondary metabolites. Discuss the role of secondary metabolites.	CLO2, C2 + C5	2+4
	c) Illustrate the functions of alkaloids.	CLO2, C3	2
Q3.	a) Mention the four steps of the enzyme mechanism.	CLO3, C1	4
	b) Describe the industrial applications of enzymes.	CLO3, C2	4
	c) Describe the lock and key mechanism of enzymes with diagram.	CLO1, C3	3
Q4.	a) Define saturated fatty acids. Mention the classification of fatty acid.	CLO4, C1 + C2	1+3
	b) Describe the biological function of lipid. Classify the lipid.	CLO4, C3 + C2	3+3
	c) Discuss the industrial application of lipids in the production of soaps and detergents.	CLO4, C4	5

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