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Daffodil International University

Department of Genetic Engineering and Biotechnology
Faculty of Health and Life Sciences
B. Sc. (Hons.) in Genetic Engineering and Biotechnology
Midterm Examination Spring 2026

rse Code: 0512- 1301 **Course Title:** Basic Biochemistry
el and Term: L-1, T-3 **Section: 252 (A+B)** **Course Teacher Initials:** DMI & DEH
e: 1 Hour 30 Minutes **Total Marks:** 25

B.G. 192 mol/g

			Marks
1	(a) Explain the scope of Biochemistry.	[CLO1, PLO1, C2]	2.0
	(b) Discuss the relationship between biochemistry with biology, medicine, and agriculture.	[CLO1, PLO1, C6]	3.0
2	(a) Draw the linear structure of glucose and ring structure of lactose and sucrose.	[CLO2, PLO2, C3]	3.0
	(b) Discuss the chemical characteristics of carbohydrates.	[CLO2, PLO2, C6]	2.0
3	(a) Differentiate among starch, glycogen, and cellulose.	[CLO2, PLO2, C4]	3.0
	(b) Classify carbohydrates with suitable examples.	[CLO2, PLO2, C2]	2.0
4	(a) Elaborate the Henderson-Heschel equation to estimate the pH of a buffer solution.	[CLO2, PLO2, C6]	3.5
	(b) Demonstrate the application of Henderson-Heschel equation.	[CLO2, PLO2, C3]	1.5
5	(a) Discuss the physical and chemical properties of water.	[CLO2, PLO2, C6]	3.0
	(b) Explain the importance of lipids.	[CLO2, PLO2, C2]	2.0

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