ourdiu.com | Shared by Obaidullah Mahmud Tawhid

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 Fall 2025

Course Code: 0512-1307
Level and Term: L1, T3
Time: 1 Hour 30 Minutes

Section: 251 (A+B)

Course Title: Enzymology
Course Teacher Initials: DMI & DNH
Total Marks: 25

Splitting any answer is strictly prohibited

			Marks
1	(a) Explain the terms enzyme and enzymology.	[CLO1, PLO1, C1]	2
	(b) State the fundamental properties of enzymes.	[CLO1, PLO2, C1]	3
2	(a) Write the approaches of enzyme nomenclature.	[CLO1, PLO2, C2]	1
	(b) Describe four enzyme classes with suitable examples.	[CLO1, PLO2, C2]	4
3	(a) Define enzyme specificity.	[CLO2, PLO1, C2]	1
	(b) Explain the Lock and Key and Induced Fit Models of enzyme specificity.	[CLO2, PLO2, C2]	4
4	(a) State the Lineweaver-Burk equation.	[CLO2, PLO1, C2]	1
	(b) Discuss the factors affecting the rate of enzymatic reactions.	[CLO2, PLO1, C6]	4
5	(a) Explain the Michaelis-Menten Model in enzyme kinetics.	[CLO2, PLO1, C2]	3
	(b) Write the biological significance of enzyme kinetics.	[CLO3, PLO3, C3]	2

ourdiu.com