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

Course Code: 0512-1307 | **Section: 252 (A+B)** | **Course Title: Enzymology**
Level and Term: L1, T3 | **Course Teacher Initials: DNH & MAR**
Time: 1 Hour 30 Minutes | **Total Marks: 25**

			Marks
1	(a) "Enzyme is a biocatalyst". Explain the statement.	[CLO1, PLO1, C2]	2
	(b) Illustrate the structure of enzyme. Write the key properties of enzymes.	[CLO1, PLO2, C2]	3
2	(a) Briefly discuss the oxidoreductases and isomerases enzymes with suitable examples.	[CLO1, PLO2, C6]	3
	(b) Discuss the Enzyme Commission (EC) number of hexokinase (EC 2.7.1.1).	[CLO1, PLO2, C6]	2
3	(a) Define enzyme specificity. Classify the mothods of enzyme assay.	[CLO2, PLO1, C4]	2
	(b) Explain the Induced Fit Models of enzyme specificity.	[CLO2, PLO2, C5]	3
4	(a) How the temperature and pH affect the enzymatic reaction?	[CLO2, PLO1, C1]	3
	(b) "At a certain point of enzymatic reaction, increment of substrate concentration do not increase the reaction rate". Explain the statement.	[CLO2, PLO1, C2]	2
5	(a) Describe the Lineweaver-Burk Model in enzyme kinetics.	[CLO2, PLO1, C5]	3
	(b) Identify the limitations of Michaelis-Menten equation of enzyme kinetics.	[CLO3, PLO3, C3]	2