

Department of Genetic Engineering and Biotechnology  
Faculty of Health and Life Sciences  
B. Sc. (Hons.) in Genetic Engineering and Biotechnology  
Midterm Examination Summer 2025

Course Code:  
GEB 0512-1101

Course Title: **Introduction to Genetic  
Engineering and Biotechnology**

Level and Term: L-1, T-1  
Time: 01 Hour 30 Minutes

Section: 252 (A+B)

Course Teacher Initial: KMH

Total Marks: 25

Splitting any answer is strictly prohibited

			Marks
1	(a) Discuss the prospects of genetic engineering and biotechnology. [CLO1, PLO1, C6]		3
	(b) Outline the applications of genetic engineering and biotechnology. [CLO1, PLO2, C2]		2
2	(a) Discuss on four suitable parameters regarding multidisciplinary nature of biotechnology. [CLO3, PLO1, C6]		3
	(b) Explain the potential benefits of biotechnology for developing countries. [CLO3, PLO2, C5]		2
3	(a) Demonstrate the strategies for successful commercialization of biotechnology in developing countries. [CLO3, PLO1, C2]		2
	(b) Elaborate the key steps in recombinant DNA technology. [CLO2, PLO2, C6]		3
4	(a) Organize three suitable biological tools being used for rDNA technology. [CLO2, PLO2, C3]		2
	(b) Illustrate four suitable methods of gene transfer. [CLO2, PLO2, C2]		3
5	(a) What are the challenges of biotechnology and genetic engineering in developing countries? [CLO1, PLO2, C1]		3
	(b) Critically summarize the public perception and ethical concerns regarding genetic engineering and biotechnology. [CLO3, PLO2, C2]		2