ourdiu.com | Shared by Ariful Islam

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: 0512-1101 **Course Title:** Introduction to Genetic Engineering and Biotechnology

Level and Term: L-1, T-1 **Section-253 (A+B)** **Course Teacher Initials: KMH**

Time: 1 Hour 30 Minutes **Total Marks: 25**

Splitting any answer is strictly prohibited

			Marks
1.	(a)	Explain the terms Genetic Engineering and Biotechnology and write its applications.	[CLO1, PLO1, C5]	2.5
	(b)	Discuss on multidisciplinary nature of biotechnology with special references to biology and life sciences; agriculture and food science; and information technology & computational sciences.	[CLO3, PLO2, C6]	2.5
2.	(a)	Elaborate the potential benefits of biotechnology for developing countries.	[CLO3, PLO2, C6]	2.5
	(b)	Outline the strategies for successful commercialization of biotechnology in developing countries.	[CLO3, PLO2, C2]	2.5
3.	(a)	Explain the challenges faced and success stories of biotechnology by developing countries.	[CLO3, PLO2, C5]	3
	(b)	Demonstrate the strategies for promoting biotechnology in developing countries.	[CLO3, PLO2, C2]	2
4.	(a)	Define and discuss the key steps in Recombinant DNA (rDNA) technology.	[CLO2, PLO2, C6]	3
	(b)	Explain the applications of Recombinant DNA technology.	[CLO2, PLO2, C5]	2
5.	(a)	Enlist the tools, ethical, social, and safety considerations of recombinant DNA technology.	[CLO2, PLO2, C4]	3
	(b)	Write short notes on (i) Nanotechnology and (ii) Medicine & Healthcare.	[CLO3, PLO2, C6]	2