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Daffodil International University

Department of Genetic Engineering and Biotechnology
Faculty of Health and Life Sciences
B. Sc. in Genetic Engineering and Biotechnology
Midterm Examination Spring 2025

Course Code: GEB 0512-1101

Course Title: Introduction to Genetic Engineering and Biotechnology

Level and Term: L-1, T-1

Section: 251 A, B

Course Teacher Initials: KMH, DFB

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 briefly outline the history.	[CLO1, PLO1, C2]	2
	(b)	Demonstrate the applications of genetic engineering and biotechnology.	[CLO1, PLO2, C2]	3
2	(a)	Write down three commercial products produced by biotechnological process.	[CLO3, PLO2, C6]	2
	(b)	Explain recombinant DNA technology and summarize the key steps in recombinant DNA technology.	[CLO2, PLO2, C2]	3
3	(a)	Illustrate the biological tools being used in recombinant DNA technology.	[CLO3, PLO2, C6]	2
	(b)	Define plasmid with appropriate diagram.	[CLO3, PLO2, C2]	3
4	(a)	Discuss on importance and challenges of commercialization of biotechnology in developing countries.	[CLO2, PLO2, C4]	2
	(b)	Write down a short note on DNA, RNA, Animal cell.	[CLO3, PLO2, C2]	3
5	(a)	Choose the key areas of biotechnology in medicine.	[CLO3, PLO2, C3]	2
	(b)	Briefly discuss on somatotropin and insulin hormones.	[CLO3, PLO2, C6]	3