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Daffodil International University

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

Course Code: GEB 0512-1101

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

Level and Term: L-1, T-1
Time: 02 Hours

Section: 252 (A+B)

Course Teacher Initial: KMH
Total Marks: 40

Splitting any answer is strictly prohibited

				Marks
1	(a)	Discuss the advantages of transgenic organisms and describe the process of producing transgenic organisms.	[CLO3, PLO2, C6]	4
	(b)	Discuss in brief the key areas of biotechnology in medicine.	[CLO1, PLO2, C5]	4
2	(a)	Elaborate the production of somatotropin using recombinant DNA technology.	[CLO2, PLO2, C6]	4
	(b)	How is somatostatin biosynthesized and processed?	[CLO3, PLO2, C5]	4
3	(a)	Explain the methods used for the production of human interferon using recombinant DNA technology.	[CLO1, PLO2, C2]	4
	(b)	Classify vaccines and describe them.	[CLO4, PLO2, C4]	4
4	(a)	Provide the examples of biotechnology-based chemicals and explain the methods of their production.	[CLO3, PLO2, C2]	4
	(b)	Explain the concept of protein regulation.	[CLO3, PLO2, C4]	4
5	(a)	Enlist the major types of blood products and explain the regulatory and ethical considerations of their production.	[CLO3, PLO2, C4]	3
	(b)	Elaborate the steps involved in the production of blood products.	[CLO3, PLO2, C6]	5