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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 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: 02 Hours **Total Marks: 40**

Splitting any answer is strictly prohibited

				Marks
1	(a)	List the names of alcoholic and non-alcoholic beverages.	[CLO3, PLO2, C4]	2
	(b)	Explain the various applications of both alcoholic and non-alcoholic beverages.	[CLO3, PLO2, C6]	3
	(c)	Explain the types of biological sweeteners and state their applications.	[CLO1, PLO2, C5]	3
2	(a)	Identify the key biotechnological products derived from plants and crops and mention their uses.	[CLO3, PLO2, C3]	5
	(b)	Appraise and state the techniques of genetic manipulation of plants.	[CLO3, PLO2, C4]	3
3	(a)	Discuss the significance of animal production through biotechnology and genetic engineering and list the names of food and non-food products.	[CLO3, PLO2, C2]	3
	(b)	Briefly discuss the biotechnological methods in animal production.	[CLO3, PLO2, C6]	5
4	(a)	Define enzyme and enzyme technology providing suitable examples.	[CLO3, PLO2, C2]	2
	(b)	Mention the applications of enzymes in various industries.	[CLO3, PLO2, C2]	2
	(c)	Analyze biosensor technology and probiotics and state their applications.	[CLO1, PLO2, C4]	4
5	(a)	Demonstrate the concepts and principles of biosafety.	[CLO4, PLO1, C2]	2
	(b)	Classify sources of environmental pollution.	[CLO4, PLO1, C4]	2
	(c)	Elaborate biotechnological approaches in waste treatment.	[CLO4, PLO2, C6]	4