Department of Genetic Engineering and Biotechnology
Faculty of Health and Life Sciences
B. Sc. (Hons.) in Genetic Engineering and Biotechnology
Final Examination Spring 2026

Course Code: 0512-1204 **Course Title:** Introduction to Genetic Engineering and Biotechnology

Level and Term: L1, T1 **Section:** 261A **Course Teacher Initials:** MAR

Time: 2 Hours **Total Marks:** 40

1	(a)	Define Food Biotechnology and its benefits.	[CLO1, PLO2, C1]	3
	(b)	Write the applications of biotechnology and genetic engineering to improve food quality.	[CLO1, PLO2, C4]	5
2	(a)	Mention the name of some biotechnological products manufactured from plants and crops.	[CLO2, PLO3, C1]	4
	(b)	List some plant-produced antibodies and pharmaceutical production in plants.	[CLO2, PLO4, C5]	4
3	(a)	Explain ATRYN goat and aqua-advantage salmon fish.	[CLO2, PLO4, C5]	4
	(b)	Outline some biotechnological methods for transgenic animal production.	[CLO2, PLO4, C2]	4
4	(a)	What is meant by enzyme technology?	[CLO3, PLO1, C2]	4
	(b)	Identify the applications of biosensors.	[CLO3, PLO1, C3]	4
5	(a)	Compare conventional plant breeding and mutation breeding.	[CLO3, PLO10, C4]	3
	(b)	Discuss major types of biofertilizers and their roles in crop improvement.	[CLO3, PLO10, C6]	5

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