

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

Course Code: 0512-1203

Level and Term: L1, T2

Time: 1 hour and 30 minutes

Section: 251 A, B

Course Title: Basic Microbiology

Course Teacher Initials: DJA, MZA

Total Marks: 25

Splitting any answer is strictly prohibited

			Marks
1	(a) Discuss the historical debate surrounding the theory of spontaneous generation.	[CLO1, PLO1, C4]	2
	(b) Explain the germ theory of disease.	[CLO1, PLO1, C2]	3
2	(a) Classify bacteria based on their anatomical features with proper examples.	[CLO2, PLO2, C2]	2
	(b) State the types of bacteria depending on oxygen availability.	[CLO2, PLO2, C1]	3
3	(a) Differentiate batch and continuous culture methods.	[CLO4, PLO1, C4]	3
	(b) Diagrammatically show the binary fission process for bacterial multiplication.	[CLO1, PLO1, C3]	2
4	(a) Draw and label the detailed anatomy of a bacterial cell.	[CLO1, PLO1, C3]	2
	(b) List down the economic importance of bacteria.	[CLO2, PLO2, C1]	3
5	(a) Summarize different anaerobic culture methods.	[CLO4, PLO1, C2]	3
	(b) Describe the concept and importance of microbial culture management.	[CLO5, PLO1, C2]	2