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

Course Code: 0512-1203
Level and Term: L1, T2
Time: 1 Hour 30 minutes

Section: 261 (A)

Course Title: Basic Microbiology
Course Teacher Initials: DNH
Total Marks: 25

				Marks
1	(a)	Define a microorganism. "Microorganisms are universal ancestor", - explain.	[CLO1, PLO2, C1]	3
	(b)	What are the four criteria of Koch's Postulates?	[CLO1, PLO2, C1]	2
2	(a)	Differentiate between bacteria and archaebacteria based on key features.	[CLO1, PLO1, C5]	3
	(b)	Categorize algae based on their primary pigments with example.	[CLO2, PLO1, C4]	2
3	(a)	Classify and discuss microorganisms based on pH.	[CLO2, PLO1, C2]	3
	(b)	Define facultative anaerobes and aerotolerant anaerobes citing one example of each.	[CLO1, PLO2, C1]	2
4	(a)	What are pleomorphic bacteria? Write the characteristics of genus *Bacillus*.	[CLO1, PLO1, C1]	3
	(b)	Draw a labeled diagram of a typical bacterial cell showing its major organelles.	[CLO1, PLO2, C6]	2
5	(a)	Write short note on bacterial size. Describe subtypes of cocci bacteria based on their arrangement.	[CLO2, PLO2, C2]	3
	(b)	Discuss the applications of microbiology in modern science and technology.	[CLO2, PLO2, C6]	2