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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
Midterm Examination Spring 2026

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

Section: 253 (A+B)

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

				Marks
1	(a)	Define a microorganism. Explain the Germ Theory of Disease.	[CLO1, PLO2, C1]	3.5
	(b)	Describe the innovative applications of microbiology in various fields.	[CLO1, PLO2, C3]	1.5
2	(a)	What are archaebacteria? Explain the key characteristics of Archaebacteria.	[CLO1, PLO1, C5]	3
	(b)	Differentiate between viroids and prions in respect of their structure and composition.	[CLO2, PLO1, C4]	2
3	(a)	Classify microorganisms based on their nutrient sources. Provide appropriate example for each category.	[CLO2, PLO1, C2]	4
	(b)	Define halotolerant microorganisms and cite a suitable example.	[CLO1, PLO2, C1]	1
4	(a)	What are pleomorphic bacteria?	[CLO1, PLO1, C1]	1
	(b)	Describe the structure of a bacterial cell with a labeled diagram and explain the functions of its major components.	[CLO1, PLO2, C6]	4
5	(a)	Classify bacteria based on their shape. Explain different types rod-shaped bacteria.	[CLO2, PLO2, C2]	3
	(b)	Discuss the scope of medical and industrial microbiology in modern science and technology.	[CLO2, PLO2, C6]	2