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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: 0512-1207
Level and Term: L-1, T-2
Time: 1 Hour 30 Minutes

Section: 253 (A+B)

Course Title: Microbial Genetics
Course Teacher Initials: DMI
Total Marks: 25

			Marks
1	(a)	Explain the structure of a bacterium with a labeled diagram. [CLO1, PLO1, C2]	2.0
	(b)	Discuss the initiation and elongation stages of bacterial DNA replication. [CLO1, PLO1, C6]	3.0
2	(a)	Draw and explain the structure of a virus. [CLO1, PLO1, C2]	2.0
	(b)	Discuss the mechanism of replication in viruses. [CLO1, PLO1, C6]	3.0
3	(a)	State the term ColE1 plasmid. Explain the types of plasmids with examples. [CLO2, PLO2, C2]	3.0
	(b)	How do bacteria develop resistance to antibiotics? [CLO2, PLO2, C6]	2.0
4	(a)	Draw a diagram showing the structure of a plasmid. [CLO2, PLO2, C3]	2.0
	(b)	Elaborate the process of bacterial conjugation with a diagram. [CLO3, PLO7, C6]	3.0
5	(a)	Describe the mechanism of bacterial transduction process. [CLO5, PLO5, C2]	3.0
	(b)	Differentiate between transformation and transduction. [CLO5, PLO5, C4]	2.0

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