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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 Summer 2026

Course Code: 0512-2205
Level and Term: L-2,T-2
Time: 1 Hour 30 Minutes

Section: 251 A+B

Course Title: Animal Cell Technology
Course Teacher Initials: SBN
Total Marks: 25

Answer the following questions.

				Marks
1.	(a)	State the basic principles of animal cell culture.	[CLO1, PLO1, C1]	2
	(b)	Explain why cell culture is used?	[CLO1, PLO1, C5]	3
2.		List and discuss the key components of a typical animal cell culture media.	[CLO2, PLO1, C4]	5
3.	(a)	Which criteria are considered in selecting a cell culture media?	[CLO1, PLO2, C1]	1.5
	(b)	Discuss about natural and synthetic media with examples.	[CLO2, PLO1, C6]	3.5
4.	(a)	List the essential equipment required for animal cell culture laboratory including their key functions.	[CLO1, PLO2, C4]	2
	(b)	Construct a layout out of a typical animal cell culture laboratory.	[CLO1, PLO2, C2]	3
5.	(a)	List the signs of contamination in a cell culture? Diagrammatically show the process of avoiding cross contamination during cell culture.	[CLO2, PLO1, C4]	3
	(b)	Discuss the controlling measures of biohazards.	[CLO1, PLO2, C6]	2