ourdiu.com | Shared by Abdullah Tawsif (CSE-232)

Daffodil International University

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

Course Code: 0512-2205 | **Course Title: Animal Cell Technology**
Level and Term: L2, T2 | **Section: 251A+B** | **Course Teacher Initials: SBN**
Time: 02 Hours | **Total Marks: 40**

Answer the following questions. **Marks**

1	(a)	Differentiate between adherent and suspension culture.	[CLO1, PLO1, C4]	3
	(b)	Describe the key components of animal cell culture environment.	[CLO1, PLO1, C2]	5
2	(a)	How animal Tissue can be disaggregated? Illustrate the Warm Trypsinization method.	[CLO1, PLO2, C4]	5
	(b)	Give an overview on types of primary culture diagrammatically.	[CLO2, PLO2, C2]	3
3	(a)	Define cell line. Discuss the types of cell lines.	[CLO2, PLO2, C6]	4
	(b)	Briefly describe how can you culture chicken embryo fibroblast.	[CLO2, PLO1, C2]	4
4	(a)	List the applications of animal cell lines.	*[CLO3, PLO2, C4]*	*3*
	(b)	Explain the technique of tumor tissue culture.	[CLO2, PLO2, C5]	5
5	(a)	Define 3D cell culture. What are the types of 3D cell culture?	[CLO2, PLO1, C1]	3
	(b)	Analyze when the culture medium should be replaced during animal cell culture. What are the reasons of freezing the animal cell?	[CLO1, PLO1, C4]	5

ourdiu.com