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
Midterm Examination Summer 2026

Course Code: 0512-2207
Level and Term: L-2, T-2
Time: 1 Hour 30 minutes

Section: 251 (A+B)

Course Title: Immunolog
Course Teacher Initials: DMI & DN
Total Marks: 2

Answer the following questions

				Marks
1	(a)	Define the immune system and mention its primary function.	[CLO1, PLO2, C1]	2
	(b)	Distinguish between innate and adaptive immunity.	[CLO1, PLO2, C3]	3
2	(a)	Describe the role of cytokines and chemokines as soluble mediators of the immune system.	[CLO1, PLO1, C5]	3
	(b)	What is inflammation? Name the major mediators of inflammation.	[CLO2, PLO1, C4]	2
3	(a)	What is antigen? Classify antigen.	[CLO2, PLO1, C2]	2
	(b)	Illustrate the difference in how the immune system defends against extracellular pathogens versus intracellular pathogens	[CLO1, PLO2, C2]	3
4	(a)	Describe the process of phagocytosis, from chemotaxis to exocytosis	[CLO1, PLO1, C1]	3
	(b)	How do Natural Killer (NK) cells recognize and decide to kill a target cell?	[CLO1, PLO2, C6]	2
5	(a)	What is Lymphocyte? How B lymphocytes fight against germs in human body.	[CLO2, PLO2, C1]	3
	(b)	What are mast cells? Briefly discuss their role in immunity?	[CLO2, PLO2, C6]	2