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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: 0611-1209 **Course Title:** Computer Fundamentals and Computational Biology

Level and Term: L-1, T-2 Section: 253 (A+B) **Course Teacher Initials:** MAR

Time: 1 Hour 30 Minutes **Total Marks:** 25

				Marks
1	(a)	Define a computer in your own words with short history	[CLO1, PLO1, C1]	2
	(b)	Explain the IPO cycle of computer.	[CLO1, PLO4, C3]	3
2	(a)	Name two Input devices and two Output devices used in a computer	[CLO1, PLO2, C1]	2
	(b)	Analyze why a computer is considered "Diligent" compared to a human when performing a repetitive task like calculating 1,000 math problems.	[CLO1, PLO4, C4	3
3	(a)	Distinguish between system software and application software based on their primary functions.	[CLO1, PLO2, C4]	3
	(b)	Explain one specific application software mentioned in your slides for data management and analytics.	[CLO1, PLO9, C1]	2
4	(a)	Explain the role of the Central Processing Unit (CPU) as the "brain" of the computer.	[CLO1, PLO2, C2	2
	(b)	Compare between hardware and software	[CLO, PLO4, C5]	3
5	(a)	Name software tools used for content creation and design from your course material.	[CLO3, PLO10, C1]	1.5
	(b)	Design a workstation setup for a student who needs to browse the internet, write reports, and manage data. Select 3 hardware components and 2 types of application software, explaining why they are necessary.	[CLO3, PLO10, C6]	3.5