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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
Final 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: 2 Hours **Total Marks:** 40

1	(a)	Define MS Word, Excel and PowerPoint with application.	[CLO1, PLO1, C1]	3
	(b)	Briefly describe how to type a text in MS Word.	[CLO1, PLO4, C3]	5
2	(a)	Explain the types of biological databases.	[CLO1, PLO2, C1]	3
	(b)	Analyze the scope of bioinformatics in the biological sciences.	[CLO1, PLO4, C4	5
3	(a)	How can 3D structure of a protein be predicted. Distinguish between PyMol and NumPy.	[CLO1, PLO2, C4]	4
	(b)	What is Python? State the applications of Python in bioinformatics.	[CLO1, PLO9, C1]	4
4	(a)	Explain the role of bioinformatics in biotechnology.	[CLO1, PLO2, C2]	3
	(b)	Briefly describe the role bioinformatics in molecular medicine and personalized medicine.	[CLO1, PLO4, C5]	5
5	(a)	Name shortcut keys used in MS word with their function.	[CLO3, PLO10, C1]	3
	(b)	How can you construct a PowerPoint slide using Microsoft PowerPoint.	[CLO3, PLO10, C6]	5

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