

QP CODE: 24900027

Reg No:	••
Name:	

MAHATMA GANDHI UNIVERSITY, KOTTAYAM

FIRST SEMESTER MGU-UGP (HONOURS) REGULAR EXAMINATION NOVEMBER 2024

First Semester

Multi-Disciplinary Course - MG1MDCBIF100 - BIOINFORMATICS FOR BEGINNERS

(2024 ADMISSION ONWARDS)

Duration: 1.5 Hours Maximum Marks: 35

Remember (K), Understand (U), Apply (A), Analyse (An), Evaluate (E), Create (C), Interest (I), Appreciation (Ap), and Skill (S)

Students should attempt at least one question from each course outcome to enhance their overall outcome attainability.

[Learning Domain][CO No(s)]

Part A

Short Answer Questions Answer any 5 out of 7 questions Each question carries 2 marks

1	Outline basic concepts in cell.	[K]	[1, 2]
2	Demonstrate the structure of a cell.	[U]	[1, 2]
3	Outline the structure of protein.	[K]	[1, 2]
4	Identify the significance of internet in bioinformatics.	[K]	[3]
5	Write on the chromosome which is completyely sequenced first?	[U]	[4]
6	What is the main purpose of the GenBank database?	[K]	[5, 6]
7	Define sequence identity.	[K]	[5, 6]
		(5	\times 2 = 10)

Part B

Short Essay Type Questions Answer any 3 out of 5 questions Each question carries 5 marks

8	Differentiate between prokaryotic and eukaryotic cell.	[U]	[1, 2]
9	Classify different levels of hierachial organization.	[U]	[1, 2]
10	Differentiate between global and local alignment.	[U]	[5, 6]
11	Illustrate the process of retrieving data from UniProt?	[U]	[5, 6]
12	Summarize history,aim and scopes of bioinformatics.	[U]	[3]
	Part C Long Essay Type Questions Answer any 1 out of 3 questions	(3	× 5 = 15)
	Each question carries 10 marks		
13	what are the implications of HGP for future medical research and treatments?	[U]	[4]
14	Explain hierachial organization and classify each levels.	[U]	[2]
15	Describe the differences between FASTA and BLAST in terms of functionality	[U]	[5, 6]
		(1 ×	10 = 10)

END OF THE QUESTION PAPER
