

QP CODE: 24900026

Reg No:	
Name:	

MAHATMA GANDHI UNIVERSITY, KOTTAYAM

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

First Semester

Discipline Specific Core Course - MG1DSCBIF100 - FUNDAMENTAL IT FOR BIOINFORMATICS

(2024 ADMISSION ONWARDS)

Duration: 2 Hours Maximum Marks: 50

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

Students should attempt atleast 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 questions. Each question carries 2 marks

1	State the key features of the fourth generation of computers.	[K]	[1]
2	State the function of a cache memory.	[K]	[1]
3	Describe the role of a DNS server.	[U]	[2]
4	List two advantages of using a high-level programming language.	[U]	[3]
5	Name the primary purpose of XML.	[K]	[3]
6	Name two advantages of using CSS in web development.	[K]	[3]
7	Identify difference between genomics and proteomics.	[K]	[4]

 $(5 \times 2 = 10)$

Part B

Short Essay Type Questions Answer any 4 questions. Each question carries 5 marks

8	Compare and contrast the characteristics and functions of RAM and ROM.	[U]	[1]
9	Outline the differences between XML and HTML.	[K]	[3]
10	Explain how the if statement works in JavaScript with an example.	[U]	[3]
11	Define text formatting in CSS and explain its significance.	[K]	[3]
12	Explain the role of Bioinformatics in medicine and agriculture.	[U]	[4]
13	Discuss the role of biological database in bioinformatics.	[U]	[4]
		(4	$4\times 5=20)$
	Part C Long Essay Type Questions Answer any 2 questions. Each question carries 10 marks		
14	Discuss the different learning of the OCI 4-1		
	Discuss the different layers of the OSI model.	[K]	[2]
15	Explain the structure of an HTML table and describe the use of tags.	[K] [U]	[2]
15 16	·	[U]	
	Explain the structure of an HTML table and describe the use of tags. Explain how bioinformatics evolved from early 90's and what are the major	[U]	[3]

 $(2\times10=20)$

END OF THE QUESTION PAPER
