


Name:			
Enrolment No:			
UPES End Semester Examination, May 2023			
Course: Computer Applications Program: B.Sc. & Int. B.Sc. + M.Sc. (CR/MICRO/N&D) / B.Tech(FT/BT) Course Code: HSCC1009		Semester : II Duration : 3 Hours Max. Marks: 100	
Instructions: Attempt all the questions.			
S. No.	Section A Short answer questions/ MCQ/T&F (20Qx1.5M= 30 Marks)	Marks	COs
Q 1	Convert the binary number 11001 to decimal.	1.5	CO1
Q 2	Convert the decimal number 45 to binary.	1.5	CO1
Q 3	The full form of CSS is _____.	1.5	CO2
Q 4	MS Access is a _____ management system.	1.5	CO2
Q 5	SWISS PROT is a _____ sequence database.	1.5	CO3
Q 6	In which form MYSQL query results are displayed?	1.5	CO2
Q 7	CDS stand for_____.	1.5	CO4
Q 8	The Protein Data Bank (PDB) is a _____ for the three-dimensional structural data of large biological molecules, such as proteins and nucleic acids.	1.5	CO5
Q 9	XML stands for _____.	1.5	CO2
Q 10	MYSQL is a _____ management system.	1.5	CO3
Q 11	What do you mean by term WWW?	1.5	CO4
Q 12	Convert the hexadecimal number B2 to binary.	1.5	CO1
Q 13	TIMS stand for_____.	1.5	CO4
Q 14	LIMS stand for_____.	1.5	CO5
Q 15	Full form of HTML_____.	1.5	CO2
Q 16	Full form of HTTP_____.	1.5	CO2
Q 17	Convert the binary number 11011 to hexadecimal.	1.5	CO1
Q 18	Change the decimal number 20 to hexadecimal.	1.5	CO1
Q 19	Convert the hexadecimal number 2C to decimal.	1.5	CO1
Q 20	The _____ database is a comprehensive, freely accessible, online database containing information on drugs and drug targets.	1.5	CO3

Section B (4Qx5M=20 Marks)			
Q 1	Draw a detailed block diagram of the different phases in the Systems Development Life Cycle. What do you understand by a Data Flow Diagram? What purpose is served by it?	5	CO2
Q 2	Discuss few applications of bioinformatics.	5	CO3
Q 3	Perform the following binary arithmetic. (i) 11011 + 10001 (ii) 10101 X 110001	5	CO1
Q 4	What is the difference between data, information, and knowledge? Discuss with suitable examples.	5	CO2
Section C (2Qx15M=30 Marks)			
Q 1	What is the relationship between HTML and CSS in website design? Explain the following HTML tags with examples. (1) <a> (2) <body> (3) (4) <table> (5) <p>	15	CO2
Q 2	What do you mean by the term Bioinformatics? Discuss various components of Bioinformatics.	15	CO3
Section D (2Qx10M=20 Marks)			
Q 1	Discuss the role of computers in preclinical development. What do you mean by Chromatographic data analysis? OR What is Laboratory Information management System? Discuss its applications and benefits.	10	CO4
Q 2	What is Text Information Management System? Discuss its applications and benefits.	10	CO5