Exam.Code:0439 Sub. Code: 3493

Max. Marks: 60

## 2123

## M.Sc. (Bio-Informatics) First Semester MBIN-8005: Computer Programming and Concepts of Computing

Time allowed: 3 Hours

	L.	Attempt five questions in all, including Question No. I which is and selecting atleast one question from each Unit.	compulsory
X-X-X			
Q1)		tempt all parts:	$(8 \cdot 1^{1}/_{2} = 12)$
	a)	Differentiate between constant and variable. Give example.	(8 1/2-12)
	O)	Name different classifications of computers with respect to size	
	c)	Name different types of number systems.	
	d)	Give working of switch-case statement.	
	e)	What do you understand by recursion? Give example	
	I)	What is the use of address operator in a program?	
	g)	How is one dimensional array represented in memory?	
	h)	What do you understand by character set of a language?	
UNIT-I			
Q2)	a)	Give block structure of a computer system. Discuss various components.	(6)
	b)	Convert the following:	6
		• $(20.50)_{10} \rightarrow (?)_2$	
		<ul> <li>(254)<sub>8</sub> → (?)<sub>10</sub></li> </ul>	
Ĺ.,		<ul> <li>(1100010)<sub>2</sub> → (?)<sub>16</sub></li> </ul>	
Q3)	a)	Discuss different types of programming languages.	(6)
	b)	What are various data types in C programming language?	(6)
~~	174	UNIT-II	
Q4)	a) Discuss and differentiate if-else and nested if statements with the help of suitable example code.		
			(6)
00	0)	Write a program to insert an element in a sorted array.	(6)
(cy	a)	How to define, declare and call a function? Give example code.	(6)
	D)	What are nested structures? Give an example program to explain the concept.	(6)
06)		UNIT-III	
(v)	a)	How to declare, initialize and use a pointer with an array? Give example code.	(6)
	U)	write a program to store text, character by character in a data file. Now read the text character	
07)		by character and print on the screen.	10
Q1)	4)	How to use pointer array in a program? Exhibit with the help of an example program.	
	ы	How to read and units a second in GLOC	(6)
	٠,	How to read and write a record in a file? Give example code.	(6)