## 2022

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

Time allowed: 3 Hours Max. Marks: 60

**NOTE**: Attempt <u>five</u> questions in all, including Question No. I which is compulsory and selecting atleast one question from each Unit.

X-X-X

		Answer the following questions:	•
		a) Draw block structure of a computer	(12)
		How an algorithm is different from a flowchart?	
	(	what is the difference between a variable and a constant? Give any a	
	. (	of the disc of oreak statement in a program?	
	6	) Flow an array is different from a variable? Give example	
	f	What is the difference between function definition and function declaration? Give example.  Give two uses of pointers?	
	32		mple.
	h	) What is the use of data files in programs?	
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۷,	200000	Troving in the land of the party of the second of the seco	(6)
2)	D	(** (**) The Ulliary, (IECIMA) and havedooimal	(6)
رد	a	Define the following with the help of examples:	(6)
		• Keywords	(6)
		• Character set of C	
		<ul> <li>Logical operators</li> </ul>	
b) Write a C program to get three numbers from user, find average of those numbers and print the answer. Give comments in the program such as			
		the answer. Give comments in the program wherever required.	
48	104.5	INIT-II	(6)
4)	a)	Write a program using for loop to print even numbers from 1 to n except number 2. Value is to be provided by user	na of
		1 7 40411	
	<i>ו</i> ס	Differentiate between call by value and call by reference with the help of example progr	(0)
εv			
5)	a)	How structures are passed to a function? Explain with the help of an example program.	(6)
	נס	Write a program to insert an element in the beginning of an array.	(6)
~		I INIT_III	(6)
0)	a)	How pointers are used with functions? Explain with the help of an example program.  Write a program to store marks obtained here.	16)
	b)	Program to store marks obtained by n students in a data file and the	(6)
<b>**</b>		and print off scient	
7)	a)	How to work with data files in a C program? Explain with the help of example code.	(6)
	b)	What is a pointer array? Write a program to show the usage of pointer array	(6)
		and or pointer array	(6)