Model Question Paper-I/II with effect from 2022-23 (CBCS Scheme)

USN

First/Second Semester B.E. Degree Examination
Introduction to C Programming

TIME: 03 Hours   **Max. Marks: 100**

Note: 01. Answer any **FIVE** full questions, choosing at least **ONE** question from each **MODULE**.

		Module -1	***Bloom's Taxonomy Level**	**Marks**
Q.01	a	What is a computer? Write the characteristics of computer.	L1	6
	b	With the neat diagram, Explain the working of CRT monitor and LCD monitor.	L2	8
	c	Write a structure of a C program with an example.	L1	6
		OR		
Q.02	a	Define the following terms with an example 　i.　　Algorithm 　ii.　　Flowcharts 　iii.　　Pseudo code	L1	6
	b	What are variables how they are declared and initialized with an example	L1	8
	c	Write a C program to demonstrate the use of printf and scanf statements to read and print values of variables of different data types.	L1	6
		Module-2		
Q. 03	a	Explain the syntax and working of switch case statement. Write a C program to determine whether an entered character is Vowel or not.	L2	10
	b	Develop a C program to find the largest of three numbers using ternary operator.	L3	6
	c	Develop a program to convert an integer into the corresponding floating point number using Type casting.	L3	4
		OR		
Q.04	a	Demonstrate the working of break and continue statement with suitable example.	L2	4
	b	Explain relation operator and logical operator.	L2	6
	c	Compare the working of for while and do while along with their Syntax.	L2	10
		Module-3		
Q. 05	a	What is recursion? Develop a C program to print Fibonacci series using recursion.	L3	8
	b	How 1D integer array is represented in memory. With the help of suitable example demonstrate the initializing the element.	L1	6
	c	Develop a C program to print binary search.	L3	6
		OR		
Q. 06	a	Distinguish between Call by Value and Call by Reference using suitable example.	~~L4~~　L2	10
	b	Define function? Develop a C program to add two integers using functions	L3	6
	c	Define storage class explain the different storage classes supported by c	L2	4
		Module-4		
Q. 07	a	How 2D array is represented in memory. Explain with suitable example.	L2	8
	b	Develop a C program to sort the given set of N numbers using bubble sort	L3	6
	c	What are strings? Mention the reading strings and writing strings along with their Syntax.	L2	6
		OR		
Q. 08	a	Develop a C program to implement matrix multiplication and validate the rules of multiplication	L3	8

	b	With a neat diagram, Explain three dimensional array write a C program to read and display 2x2x2 array.	L2	6
	c	Develop a C program to print the following pattern. H H E H E L H E L L H E L L O H E L L O H E L L H E L H E H	L3	6
Module-5				
Q. 09	a	What is a pointer? Discuss pointer arithmetic with suitable code.	L1	6

	b	Using suitable code, Discuss the working of the following string functions
		    i. Strcat
		    ii. Strlen
		    iii. Strstr
		    iv. Strcmp
			L2	8

	c	Develop a C program to concatenate two strings without using built-in function.	L3	6
OR				
Q. 10	a	Develop a program using pointers to compute the Sum, Mean and Standard deviation of all elements stored in an array of N real numbers.	L3	7
	b	Define structure? How structure is declared and initialize.	L2	6
	c	Develop a C program to implement a structures read, write and compute average marks and the students scoring above and below the average marks for a class of N students	L3	7