CBCS SCHEME

BPOPS103/203

First/Second Semester B.E./B.Tech. Degree Examination, Dec.2023/Jan.2024 **Principles of Programming Using C**

HOME Max. Marks: 100 Time: 3 hrs.

Note: 1. Answer any FIVE full questions, choosing ONE full question from each module.

		Note: 1. Answer any FIVE full questions, choosing ONE full question from each mou 2. M: Marks, L: Bloom's level, C: Course outcomes.	L		C
		Viodille – I			01
.1	a.	Define a Computer Hynlain the characteristics of a digital computer	_	-	CO1
	b.	Explain the basic structure of a C program with a near diagram.			
		OR	L	1 (CO1
0.2	a.	Will a nest diagram evaluan the steps in the execution of e program.			01
	b.	Explain the input and output statements in C with examples for each.			
		Module – 2 10	L	2 (CO1
) 2	a.	Explain the various operators in C.			CO2
2.3	b.	Explain the various operators in e. Explain the different forms of if statement with flowcharts.	L	1	02
	D.	OR		2 4	702
		Explain the switch statement with an example.	0		CO ₂
2.4	a.		_	_3	~~
		Explain break and continue statements with examples for each.	-		CO ₂
	b.			_3	
		Write a C program to find the largest of 3 numbers using nested if 00	6 I	_3	CO ₂
	c.				
		statement.			
		Module – 3	0 1	[2]	CO3
Q.5	a.	Discuss in detail the parts of a user-defined function.		L2	CO ₃
£	b.	Discuss the storage classes in C.			
	100		5	L1	CO ₃
Q.6	a.	Define recursion. Write a C program to find the factorial of 'n' using 0	-	L3	000
Q.0	a.			L1	CO ₃
	la	recursion. What is an array? Explain the declaration and initialization of 1-D arrays.	100000	L1 L2	COS
	b.				CO3
	-	Write a C program to perform Matrix Multiplication.	0	L3	COS
	c.		-		~~
		implement string operations such as compare	10	L3	CO
Q.7	a.				
		Develop a program using pointers to compute, sum, mean and standard	10	L3	CO
	b	Develop a program using pointers to compute, surry			
		deviation of all the elements stored in an array.			
		OR Superinter variables	05	L2	CO
Q.8	a	Define a pointer Discuss the declaration of politicity variables.	10	L2	CO
6.0	b	t thing handling functions ill C.	05	L3	CO
	C	Write a C program to swap two numbers using can by reference testing	00		
-			10	L1	CO
0.0		D. Grand attracture Explain the types of structure declarations	10		
Q.9	2		10	Т2	CO
	-	to read write and compute average marks and sin	10	L3	CO
	1	students scoring below and above average in a class of 'N' students.			
		students scoring below and above divising OR			1~~
		towns and union	06	L2	CC
Q.1	0	Differentiate between structures and union. Define a structure by name DOB consisting of three members dd, mm	06	L3	CC
		Define a structure by name DOB consisting of three metals.			
		1 Davidon a C program that would read values			
		member and display the date in the form during yyyy.	08	L2	CC
	-	Explain the various file operations with syntax for each.			