CBCS SCHEME

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MORITARIA		

BPOPS103/203

First/Second Semester B.E./B.Tech. Degree Supplementary Examination, June/July 2024

Principles of Programming Using C

Time: 3 hrs.

Max. Marks: 100

Note: 1. Answer any FIVE full questions, choosing ONE full question from each module.
2. M: Marks, L: Bloom's level, C: Course outcomes.

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	_	Module – 1	M	L	C
Q.1	a.	Discuss the structure of 'C' program with an example.	8	L2	CO1
	b.	What are Variables? Write the rules to declare a variable.	6	L2	CO2
	c.	What are escape sequences? Mention the escape sequences of 'C' language with their meaning.	6	L2	CO2
		OR ·			
Q.2	a.	Explain any two output devices in detail.	6	L2	CO1
	b.	With an example, explain Input – Output statements in 'C'.	6	L2	CO2
	c.	Discuss the classification of Computers.	8	L2	CO1
		Module – 2	-		
Q.3	a.	List all decision control statements in 'C'. Explain else – if ladder and nested if with its syntax and example.	8	L2	CO2
	b.	Write a 'C' program to simulate a calculator using switch statement.	6	L3	CO2
	c.	Explain break and continue statement with example.	6	L3	CO2
		OR			
Q.4	a.	Explain the for Loop with its syntax. Write a 'C' program to find whether a given number is prime or not.	8	L3	CO2
	b.	Differentiate while and do – while loops with example.	6	L3	CO2
	c.	What are nested loops? Give example. Write a 'C' program to display the pattern shown below. 1 2 2 3 3 3 4 4 4 4 5 5 5 5 5	6	L3	CO2
		Module – 3			
Q.5	a.	Define Function. Write the syntax of a function. Explain the categories of function with examples.	10	L2	CO2

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a program to find length of given string without using built in			003
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operations that are carried out on pointers.			
OR			
program to copy and concatenate from one string to another.	8	L3	CO5
any 6 string manipulation functions.	6	L3	CO4
and a string manifestation randottone.			001
'C' program to find sum, mean, standard deviation of all elements	6	L5	CO5
	U	LD	COS
ray using pointers.			
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Union? Give its syntax. Differentiate unions and structures.	8	L2	CO4
with an example array of structures and arrays within structure.	6	L2	CO4
note on Structures and Functions.	6	L3	CO4
OR			
	8	L2	CO5
a r no. Explain different modes of r ne with example.	O	112	003
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note on Enumerated Data type	-	L2	CO4
note on Enumerated Data type.	6		
V.			
	6	L4	CO5
Module – 5 Union? Give its syntax. Differentiate unions and structures. with an example array of structures and arrays within structure			. 6 L2

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