

USN

## **BESCK104E/BESCKE104**

## First Semester B.E./B.Tech. Degree Examination, Nov./Dec. 2023 Introduction to 'C' Programming

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.

		Module – 1	Μ	L	С			
Q.1	a.	Explain the five generations of computers.	10	L2	CO1			
	b.	What are input and output devices? Mention various input devices. Explain	10	L2	<b>CO1</b>			
		keyboard and pointing input devices.						
OR								
Q.2	a.	Explain the four kinds c files associated with 'C' program.	6	L2	CO1			
	b.	Explain the structure of 'C' program with an example.	8	L2	CO2			
	c.	Explain the input-output statements using C with suitable programming example.	6	L2	CO2			
Module – 2								
Q.3	a.	What are operators? Mention all 'C' operators. Explain: (i) Relational (ii) Conditional (iii) Increment-decrement operators with example.	9	L2	CO2			
	b.	Write a 'C' program to find the largest of three numbers using nested – if.	6	L3	CO2			
	c.	Explain switch statement with its syntax and programming example.	5	L2	CO2			
OR								
Q.4	a.	Discuss for, while and do-while loops with their syntax and programming examples.	9	L2	CO2			
	b.	Write a note on break and continue statement with example.	6	L2	CO2			
	c.	Write a 'C' program to find factorial of a member.	5	L3	CO2			
Module – 3								
Q.5	a.	Define function. Give its syntax. With an example discuss function	6	L2	CO4			
		declaration, function definition and calling function.						
	b.	Explain the parameter passing techniques supported by 'C' language with example.	6	L2	CO4			
	c.	Discuss the storage classes supported by 'C'.	8	L2	CO3			
OR								
Q.6	a.	Discuss arrays with its syntax. Explain various ways of initializing one- dimensional arrays with example.	7	L2	CO3			
	b.	Write a 'C' program to search a key element in the given sorted array using binary-search technique.	10	L2	CO3			
	c.	Define Recursion. Mention the base properties of recursive function.	3	L2	CO4			
		Module – 4						
Q.7	a.	Write a 'C' program to find product of 2 matrices.	10	L2	CO3			
	b.	Explain 2-dimensional arrays with its syntax. How 2-dimensional arrays are declared and initialized?	10	L2	CO3			
OR								
Q.8	a.	What is a string? Explain the 'C' functions used to read and write characters	6	L2	CO3			
	h	Explain function of 'C' to read and write strings	6	L2	CO4			
a.	о. с.	What is scanset? With an example, write a 'C' program to illustrate the use of caret symbol in scanset	8	L2	CO3			
		of caree symbol in sounset.	1	1	L			

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Module – 5									
Q.9	a.	Write a 'C' program to implement string operations such as string length	8	L2	CO3				
		and string concatenation.							
	b.	Explain any six string manipulation function.	6	L2	CO3				
	c.	What is a pointer? With an example, explain how pointers are declared and	6	L2	CO3				
		initialized.							
OR CR									
Q.10	a.	What is structure? Give its syntax. With an example, explain how structure	6	L2	CO3				
		members are declared and initialized.			COF				
	b.	Write a 'C' program to implement a structure to read, write and compute			05				
		average marks and the student scoring above and below average marks for							
		class of 'N' students.	6	12	C03				
L	c.	write a note on stack and neap.	U		005				
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