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BESCK204E

## Second Semester B.E/B.Tech. Degree Examination, June/July 2025 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			M	L	C
<b>1</b>	a.	Explain the basic structure of C program.	6	L2	CO1
	b.	Explain various input devices.	6	L2	CO1
	c.	What the basic data types in C? Explain the characteristics of C.	8	L2	CO1
<b>OR</b>					
<b>2</b>	a.	List and explain different types of computers.	6	L2	CO1
	b.	Differentiate system software and application software.	6	L2	CO1
	c.	Design algorithm and flow chart to find area and circumference of circle.	8	L3	CO1
<b>Module – 2</b>					
<b>3</b>	a.	Explain any five operators supported in C with example.	10	L2	CO2
	b.	Write a C program to print the following pattern : 1 2 3 4 5 6 7 8 9 10	10	L3	CO2
<b>OR</b>					
<b>4</b>	a.	Explain different types of conditional branching with syntax.	10	L2	CO2
	b.	Write a C-program to find factorial of a given number using while loop.	10	L3	CO2
<b>Module – 3</b>					
<b>5</b>	a.	Define array. Explain different types of array with syntax.	10	L2	CO3
	b.	Write a C-program to swap two numbers using call by reference method.	10	L3	CO3
<b>OR</b>					
<b>6</b>	a.	Describe different types of storage classes with example.	10	L2	CO3
	b.	Explain run time array initialization and write a C-program to demonstrate runtime initialization.	10	L3	CO3
<b>Module – 4</b>					
<b>7</b>	a.	Write a C-program to read and print the matrix of m-rows and n-columns using two dimensional arrays.	10	L3	CO3
	b.	Define string with syntax. Explain different string manipulating functions with syntax.	10	L2	CO3

OR					
<b>8</b>	a.	Explain selection sort. Write a C-program to sort numbers in ascending order.	<b>10</b>	<b>L3</b>	<b>CO3</b>
	b.	Explain formatted and unformatted input and output using string.	<b>10</b>	<b>L2</b>	<b>CO3</b>
Module – 5					
<b>9</b>	a.	Define pointer. Explain how the pointer is declared and initialized with example.	<b>10</b>	<b>L2</b>	<b>CO4</b>
	b.	Write a C-program to convert the string to uppercase to lowercase usingstrupr( ) and strtolwr( ).	<b>10</b>	<b>L3</b>	<b>CO5</b>
OR					
<b>10</b>	a.	What is a structure? Explain the declaration of structure with an example.	<b>10</b>	<b>L2</b>	<b>CO4</b>
	b.	Develop a C-program to compute the Sum, mean and standard deviation of all elements of an array using pointer.	<b>10</b>	<b>L3</b>	<b>CO5</b>

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