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CBCS SCHEME

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BESCK204E

Second Semester B.E./B.Tech. Degree Examination, June/July 2026
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
Q.1	a.	Write a structure of a C program with an example.	10	L2	CO1
	b.	Explain an Identifier. What are the rules to define an identifier?	04	L2	CO1
	c.	Define the following terms with an example: (i) Algorithm (ii) Flowchart (iii) Pseudocode	06	L1	CO1
		OR			
Q.2	a.	Explain different input output statements in C with appropriate syntax and example.	07	L2	CO1
	b.	What is a Computer? Write the characteristics of computer.	06	L2	CO1
	c.	Illustrate the use of file types in C with a suitable example program.	07	L3	CO1
		Module – 2			
Q.3	a.	Explain the relational and logical operators used in C with suitable examples.	07	L2	CO2
	b.	Compare the working of 'while' and 'do-while' along with their syntax.	06	L3	CO2
	c.	Write a C program to find the largest of three numbers using tunary operator.	07	L2	CO2
		OR			
Q.4	a.	Explain the syntax and working of switch case statement. Write a C program to determine whether an entered character is vowel or not.	10	L2	CO2
	b.	Demonstrate the working of break and continue statement with suitable example.	10	L3	CO2
		Module – 3			
Q.5	a.	Discuss the various ways of passing parameter to the function.	07	L2	CO3
	b.	Explain the different type of storage classes.	07	L2	CO3
	c.	Write a C program to sort the given set of N numbers using Bubble Sort technique.	06	L2	CO3

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		OR			
Q.6	**a.**	Write a C program to implement the use of functions. Your program should include function declaration, definition, call and passing of arguments. Explain each part briefly.	**10**	**L2**	**CO3**
	b.	What is a Recursive Function? Write a C program to find power of a number.	**05**	**L2**	**CO3**
	c.	Explain initializing the array elements with a suitable example.	**05**	**L2**	**CO3**
		Module – 4			
Q.7	**a.**	Describe a two dimensional array and describe the steps involved in its declaration, initialization and elements access with an example.	**10**	**L3**	**CO4**
	b.	Illustrate the concept of a string in C and provide the syntax for declaring and initializing a string variable, including an example.	**10**	**L3**	**CO4**
		OR			
Q.8	**a.**	Write a C program to perform addition of two matrices.	**07**	**L3**	**CO4**
	b.	What are Strings? Mention the reading strings and writing strings along with the syntax.	**07**	**L2**	**CO4**
	c.	List the applications of array.	**06**	**L1**	**CO4**
		Module – 5			
Q.9	**a.**	Write a C program to implement structure to read, write and compute average marks and the student scoring above and below the average marks for a class of N students.	**10**	**L3**	**CO5**
	b.	Write a C program using pointer to compute the sum and mean of all elements stored in an array of N real numbers.	**05**	**L3**	**CO5**
	c.	Write a C program to perform basic string operations such as length and comparison.	**05**	**L3**	**CO5**
		OR			
Q.10	**a.**	Write a C program to read a sentence and count the number of words in the sentence.	**06**	**L2**	**CO5**
	b.	Write a C program to swap two integer values using pointer.	**07**	**L3**	**CO5**
	c.	Explain with suitable example how the members of a structure are accessed.	**07**	**L2**	**CO5**

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