

CBCS SCHEME

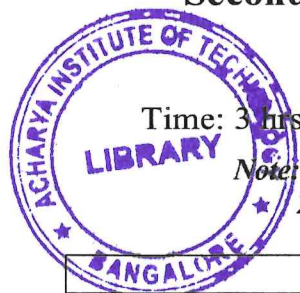
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BESCK204E

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 ternary 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

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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