

**BONAM VENKATA CHALAMAYYA INSTITUTE OF TECHNOLOGY & SCIENCE  
(AUTONOMOUS)**

***I-B. Tech I-Semester Regular/Supplementary Examinations (BR23), January - 2026***

**INTRODUCTION TO PROGRAMMING (COMMON TO ALL BRANCHES)**

Time: 3 hours

Max. Marks: 70

*Question Paper consists of Part-A and Part-B  
Answer ALL the question in Part-A and Part-B*

PART-A (10X2 = 20M)

|  | Marks | CO  | BL |
|--|-------|-----|----|
| 1. a) Define Flow Chart with few examples of symbols used in C?          | (2M)  | CO1 | L1 |
| b) Define Identifiers with few examples in C?                            | (2M)  | CO1 | L1 |
| c) Define Keywords used in C with an example?                            | (2M)  | CO2 | L1 |
| d) Define a Continue statement and where you will use it in C?           | (2M)  | CO2 | L1 |
| e) Define a String?  | (2M)  | CO3 | L1 |
| f) Write an algorithm for (logic only) for concatenation of two strings. | (2M)  | CO3 | L2 |
| g) Give the syntax for a Union?  | (2M)  | CO4 | L2 |
| h) Define a Pointer? Give the syntax of a Pointer?                       | (2M)  | CO4 | L2 |
| i) Define Recursive Function?  | (2M)  | CO5 | L1 |
| j) Define a Scope of a variable.   | (2M)  | CO5 | L1 |

PART-B (5X10 = 50M)

|   |     |     |    |
|---|-----|-----|----|
| 2a. Explain about the History of Computers in Detail.   | 5M  | CO1 | L1 |
| b. Explain about the various Operators used in C Language.  | 5M  |     |    |
| (OR)  |     |     |    |
| 3a. Explain about the basic organization of a computer with a neat diagram.   | 5M  | CO1 | L1 |
| b. Explain about various Input operations used in C Language.   | 5M  |     |    |
| 4a. Explain about the various Storage Classes used in C with Examples.  | 10M | CO2 | L2 |
| (OR)  |     |     |    |
| 5a. Write a C program to print whether given number is an Armstrong number or not.  | 5M  | CO2 | L2 |
| b. Give the differences between WHILE and DO – WHILE loops.   | 5M  |     |    |
| 6. Write a C program to implement all the STRING Handling Functions like strlen(), strcat( ), strcmp( ), etc...                     | 10M | CO3 | L3 |
| (OR)  |     |     |    |
| 7. Write a C program to print the left and right diagonal elements of a given input square matrix by checking the matrix condition. | 10M | CO3 | L3 |
| 8a. Define Pointer of Pointers. Give an example of C Program for Pointer of Pointers.   | 5M  | CO4 | L1 |
| b. Write a C program to read the array elements and print the array elements using pointers.  | 5M  |     |    |
| (OR)  |     |     |    |
| 9a. Write a C program to print the details of a student using Unions.   | 5M  | CO4 | L1 |
| b. Give the differences between Structures and Union.   | 5M  |     |    |

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|------|---|-----|-----|----|
| 10a  | Define a Function. Write a program to implement addition of two numbers in all the four function parameters passing techniques. | 10M | CO5 | L3 |
| (OR) |   |     |     |    |
| 11a  | Define a File. Write a C program to copy one file to another file using File Handling Functions.                                | 10M | CO5 | L3 |

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