

DR. BABASAHEB AMBEDKAR TECHNOLOGICAL UNIVERSITY, LONERE

Regular & Supplementary Winter Examination-2023

Course: B. Tech.

Semester : I

Subject Code & Name: Computer Programming in C [BTES104]

Max Marks: 60

Date:08-01-24

Duration: 3 Hr.

**Instructions to the Students:**

1. All the questions are compulsory.
2. The level of question/expected answer as per OBE or the Course Outcome (CO) on which the question is based is mentioned in ( ) in front of the question.
3. Use of non-programmable scientific calculators is allowed.
4. Assume suitable data wherever necessary and mention it clearly.

	(Level/CO)	Marks
<b>Q. 1 Solve Any Two of the following.</b>		12
A) Explain in detail Arithmetic, Relational and Logical operators in C.	CO1	6
B) What is difference between high level language and low level language explain with example	CO1	6
C) What are types of errors in C. Explain in details with suitable example	CO1	6
<b>Q.2 Solve Any Two of the following.</b>		12
A) Define Keywords? What are the rules to declare Keyword? Can we declare keyword as a variable name.	CO2	6
B) Write a program to print following pattern * * * * * * * * * * * * * * *	CO2	6
C) What is difference between while loop and do while loop C Program to demonstrate the do...while loop behavior when the condition is false from the start	CO2	6
<b>Q. 3 Solve Any Two of the following.</b>		12
A) Write a C program to Demonstrate returning of day based numeric value	CO3	6
B) Write a program to perform Multiplication of two 3x2 matrices if matrix elements are entered by user.	CO3	6
C) Write a program and draw a flowchart to check given number is even or odd	CO3	6
<b>Q.4 Solve Any Two of the following.</b>		12
A) What do you mean by function? Give the proper syntax to define declare and call	CO4	6

function.

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|----|--|-----|---|
| B) | Write a program to calculate factorial of a number using function.                         | CO4 | 6 |
| C) | Explain following c string functions.write a program to illustrate the following functions | CO4 | 6 |
|    | 1.Strlen   |     |   |
|    | 2.Strcpy   |     |   |
|    | 2.Strcat   |     |   |

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|-------------|--|-----|----|
| <b>Q. 5</b> | <b>Solve Any Two of the following.</b>   |     | 12 |
| A)          | What is difference between array and Structure? Explain with suitable example and syntax.  | CO5 | 6  |
| B)          | Write a program to enter Student details such as Name, Department, PRN using structure.  | CO5 | 6  |
| C)          | Write a program to enter and print data of three books which contain. its Name, Author and Publisher type of book using structure. | CO6 | 6  |

**\*\*\* End \*\*\***