

**DR. BABASAHEB AMBEDKAR TECHNOLOGICAL UNIVERSITY, LONERE**

**End Semester Examination, Winter - 2022**

**Course: B. Tech**

**Semester: I**

**Subject Name: Computer Programming in C**

**Subject Code: CP1204**

**Max Marks: 60**

**Date: 27/03/2023**

**Duration: 3 Hr.**

**Instructions to the Students:**

1. All Questions are compulsory.
2. Each question carries 12 marks.
3. Figures to the right indicate full marks.
4. Assume suitable data wherever necessary and mention it clearly.

**Q.1 Solve any two of the following.**

- A) Explain different phases in programming process. (6)
- B) Draw the flowchart and write algorithm to find the entered integer is odd or even. (6)
- C) Write short note on: (6)
  - a) Compiler                      b) Interpreter                      c) Assembler

**Q.2 Solve the following Question 120**

- A) Explain the Token with example. (6)
  - B) Explain the precedence and order of evaluation for assignment operator. (6)
- OR**
- B) Write short note on logical operators with example. (6)
  - C) Explain the different Data types in C with suitable example. (6)

**Q.3 Solve any two of the following.**

- A) What is function in C? Write the syntax for function prototype, function definition and function call. (6)
- B) Write a C program to calculate factorial of a number using function. (6)
- C) Write a program in C to create simple calculator by using switch cases. (6)

**Q.4 Solve the following 1200**

- A) Define Array. What are various types of array and write syntax of any two of them. (6)
  - B) Write a program to read 0 to 10 numbers from the user by using array and display average of these numbers. <https://www.batuonline.com> (6)
- OR**
- B) Write a program in C for addition of two dimension matrices using multi-dimensional Array. (6)
  - C) Write a C program to perform the string operations using inbuilt string functions. (6)
    - i) Concatenate                      ii) Copy                      iii) Length of the string

**Q.5 Solve any two of the following**

- A) Write a program in C to create a structure having name as Student consisting of name, address, student\_id as its members. Read the details of five students from user and then display the data entered by the user on Screen (Use array of structure). (6)
- B) Write a program in C to create structure Rectangle, consisting of length and breadth as its members. Calculate and display area of rectangle. (6)
- C) What is structure in C? What is structure variable? Explain the difference between structure and array. (6)

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