

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

- 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

- 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. (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)

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