



Odd End Uncommon 1 Semester (Back Paper) Examination January 2025

Roll no.

Name of the Course and semester: BCA/BSc(IT) and 1st

Name of the Paper Programming Concepts Using C Language

Paper Code: TBC 101/ TBI 101

Time: 3 hour

Maximum Marks: 100

Note:

- (i) All questions are compulsory.
- (ii) Answer any two sub questions among a, b and c in each main question.
- (iii) Total marks in each main questions are twenty.
- (iv) Each question carries 10 marks.

Q1.

(10 x 2 = 20 Marks) C01

- a. What is a flow chart. Explain in detail also draw a flow chart to find whether a number is even or not.
- b. Write an algorithm to find the greatest number among three numbers
- c. What do you understand by term "Algorithm"? Describes its different characteristics. Write an algorithm to find if a given no is prime or not.

Q2. (10 x 2 = 20 Marks) C02

- a. Explain various types of operators in C language. Write a C program to find given year is leap year or not using logical operator.
- b. Explain the following
Variable, constants and Identifiers
- c. Analyze the use of different data types in C with suitable program.

Q3. (10 x 2 = 20 Marks) C03

- a. What is typecasting in C? Explain in detail
- b. Write a C program to convert a decimal number into octal number.
- c. Explain recursion. Write a C program to find factorial of a given no using recursion.

Q4. (10 x 2 = 20 Marks) C04

- a. Write a C program to find integers at odd position in an array of integers.
- b. Write a C program to find maximum and minimum element in an ARRAY.



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- c. Explain the difference between while and for loop with suitable example.

Q5(10 x 2 = 20 Marks) CO 5

- Write a c program to Swap two numbers using call by value and call by reference.
- Define function. Write a C program to find given number is Armstrong number or not using functions.
- What is the difference between static and dynamic memory allocation? Also explain which functions are used in dynamic memory allocation?