

Roll No.

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Total No. of Pages : 02

Total No. of Questions : 07

BCA (Sem.-1)
PROBLEM SOLVING USING C
Subject Code : UGCA1903
M.Code : 76963
Date of Examination : 16-06-2025

Time : 3 Hrs.

Max. Marks : 60

INSTRUCTIONS TO CANDIDATES :

1. SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
2. SECTION-B contains SIX questions carrying TEN marks each and students have to attempt any FOUR questions.

SECTION - A

1) Write briefly :

- a) Write difference between algorithm and flowchart.
- b) Explain in brief about library functions.
- c) Explain the term identifiers with example?
- d) Write the syntax for do-while loop.
- e) Explain the syntax of If-else statement.
- f) List various string functions.
- g) Explain actual and formal parameters.
- h) Write the advantages of functions.
- i) List various File Operations.
- j) What are pointers? When and why they are used?

SECTION - B

2. Write a detailed note on different types of Data Types available in C.
3. **Write a detailed note on the following :**
 - a) Pseudo code and Algorithms.
 - b) Relational and conditional operators.
4.
 - a) Explain formatted input and output with examples.
 - b) Explain the use of Switch statement with a suitable C program.
5.
 - a) What is an array? What are the merits and demerits of array in C? Differentiate between one dimensional and two dimensional arrays with suitable example.
 - b) Write a program to compute the sum of diagonal elements of a square matrix.
6.
 - a) Write a C program to find the factorial of given number using function.
 - b) Differentiate between call by value and call by reference.
7.
 - a) What is structure? How can we access element of a structure?
 - b) What is union? Mention its advantages. Also, differentiate between structure and union with suitable example.

NOTE : Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.