

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 : UGCA-1903
M.Code : 76963
Date of Examination : 07-01-2025

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 :

- What are the basic data types associated with C?
- Define the term Identifiers and Keywords.
- What are Constants and what are its types?
- Differentiate between formatted and unformatted I/O functions.
- Differentiate between break and continue statements in C.
- Differentiate between structure and union.
- What is a pointer? How a variable can be accessed using pointer?
- How are multidimensional arrays defined?
- What do you mean by Function Prototyping? Explain in brief.
- What are formal and actual Parameters in Functions?

SECTION-B

2. **Write a detailed note on following :**
 - a) Decision Trees
 - b) Pseudo code and Algorithms
3. **Explain the following operators with suitable examples :**
 - a) Relational Operators
 - b) Logical Operators
4. **Write a C Program to print Fibonacci series up to n terms using :**
 - a) While loop
 - b) For loop
5. What is recursion? Write a C program to find sum of first n natural numbers using recursion.
6. What is Storage class? Explain various storage classes with suitable example of each.
7. **Write a detailed note on the following:**
 - a) Pointers
 - b) Processing a data file

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.