

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 : 12-06-2023

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) Differentiate between Keywords and Identifiers.
- b) What are Symbolic Constants? Explain.
- c) What is meant by pseudo code?
- d) List any two unformatted input output functions.
- e) Write the syntax of WHILE loop in C.
- f) What are static variables? Give example.
- g) List out various file operations in C.
- h) Differentiate between Arrays and Structures in C.
- i) Define the term functions in C.
- j) Explain in brief about String functions in C.

## SECTION-B

2. What do you mean by Flowchart. Explain the different symbols used in a flowchart. How it differs from an Algorithm.
3. Explain the following operators with suitable examples :
  - a) Arithmetic Operators
  - b) Assignment and Conditional Operators
4.
  - a) Write a C program to find sum of first ten natural numbers using FOR loop.
  - b) What is meant by switch-case? Explain with the help of an example.
5. Explain the use of 'break' statement? Write a program to check whether a given number is prime using break statement?
6. **Explain the following concepts with suitable examples :**
  - a) Structures and pointers.
  - b) Passing structures to functions.
7. What is the difference between call by value and call by reference in relation to functions? Explain with the help of an 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.**