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.