Roll No. [_____]   Total No. of Pages : 02

Total No. of Questions : 07

Bachelor of Science (Data Analytic) (Sem.–1)
PROBLEM SOLVING USING C
Subject Code : UGCA1903
M.Code : 91481
Date of Examination : 19-01-23

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. What is flowchart?

    b. Define Identifiers.

    c. List different data types available in C.

    d. Define user defined functions.

    e. What are the benefits of arrays?

    f. Distinguish between structure and union.

    g. Discuss the use of nested structure.

    h. Define storage classes.

    i. What are file operations?

    j. Give the introduction of multidimensional array.

SECTION-B

2. Define operators. List various types of operators used in C.

3. Write the general syntax and working of *Do while* statement in C.

4. Write a C program to find the factorial of a given number using recursion.

5. What are strings? Explain different string handling functions with examples.

6. What is the use of pointers? Discuss pointers initialization and arithmetic.

7. Write in detail various functions for basic data file manipulations and operations.

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