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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: 12-12-2023

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) What is a variable? Illustrate with an example.
- b) What is the importance of keywords in C?
- c) Explain in brief about Symbolic Constants.
- d) What are Nested loops?
- e) What is use of switch statement in C?
- f) Differentiate between Break and Continue statements.
- g) Write advantages of Arrays.
- h) What do you mean by function prototypes?
- i) Differentiate between arrays and structures.
- j) What are the uses of pointer?

SECTION-B

2. **Write a detailed note on following :**
 - a) Flowcharts
 - b) Decision Trees
3. **Explain the following Operators in C Language with suitable examples :**
 - a) Arithmetic
 - b) Unary
 - c) Logical
4. **Explain the following control flow statements with a suitable C program :**
 - a) While
 - b) For
5. What do you mean by Recursion? What is the use of Recursion in C programs? Write a program to find factorial of a number using Recursion.
6. Write a detailed note on various storage classes available in C language.
7.
 - a) What is a pointer? Explain how the pointer variable is declared and initialized?
 - b) Write a program in C to find the sum and mean of all elements in an array using pointers.

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.