

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 : 08-06-2024

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 is pseudo code? Give an example of it.
- How do you skip the current iteration and continue to the next one?
- What are symbolic constants?
- Define unary operator with an example.
- How do you print integers with leading zeros using printf()?
- What is the purpose of a loop's condition?
- Define recursion.
- What is an address of a variable?
- Define static variable.
- What is a union?

SECTION-B

2. Name and describe the five basic data types in C along with their memory requirements and range.
3. Write a program in C language to find the smallest number among three numbers. Also, draw its flowchart.
4. Write a program to print the following structure using for loop.

```
*  
  
*      *  
  
*      *      *  
  
*      *      *      *
```

5. Write a program in C language to subtract two matrixes of size [3×3].
6. What is structure in C language? Create a structure for storing and accessing information [name, roll marks] of students.
7. Explain the storage classes available in C language.

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.