

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 : 09-01-2026

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? Give an example of it.
- b) Define external variable.
- c) What is function prototype?
- d) How do you print a single character with printf() using its ASCII value?
- e) What is the difference between "while" and "do-while" loops?
- f) Define conditional operator with an example.
- g) What is the purpose of a loop's condition?
- h) Define an array and write syntax to declare 2-dimensional array of your choice.
- i) What is pointer variable?
- j) What is an identifier?

SECTION - B

2. Explain about the various logical operators available in C language with examples.
3. Write a program to print the following structure using **for** loop.

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

4. Write a program in C language to add two matrixes of size [3X3].
5. Discuss the role of file handling in programming and explain the following functions in file operations:
 - a) `getw()`
 - b) `putw()`
 - c) `fscanf()`
 - d) `fprintf()`
6. Describe the process of passing arrays to functions in C programming. Provide examples to illustrate the concept.
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.