Roll No. 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?

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## **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 its 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.	

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