

Roll No. ....

Paper Code – BCA 1002

BCA 1<sup>st</sup> Year (Semester-I) EXAMINATION, 2023-24

C PROGRAMMING

PAPER-II

Time : Two Hours]

[Maximum Marks : 75

**Note-** This paper consists of three Section A, B and C. Carefully read the instructions of each Section in solving the question paper. Candidates have to write their answers in the given answer-copy only. No separate answer-copy (B Copy) will be provided.

#### Section-A

##### (Short Answer Type Questions)

**Note-** All questions are compulsory. Answer the following questions as short answer type questions. Each question carries 5 marks.

1. (A) Explain the basic structure of a C program with an example.

- (B) Define variable. Explain the rules for constructing variables in C Language.
- (C) Write a C program to find the biggest of three numbers.
- (D) Explain with examples formatted input output statements in C.
- (E) Write a C program to find the largest element in an array.
- (F) What is function ? Explain the difference between user defined and library functions.
- (G) - Explain Pointer in C programming.
- (H) Explain Local and Global variables.
- (I) - Why we use structure in programming ?

#### Section-B

##### (Long Answer Type Questions)

**Note-** This section contains four questions from which one question is to be answered as long question. Each question carries 15 marks.

2. What is operators in C ? Explain all operators with example ?

(Or)

3. (a) Explain Recursion with suitable example  
(b) Explain Call by Value and Call by Reference.

**(Or)**

4. What is Array ? Write a program to find the multiplication of two dimensional array.

**(Or)**

5. What is Sorting ? Explain Bubble sort in detail.

### **Section-C**

#### **(Long Answer Type Questions)**

**Note-** This section contains four questions from which one question is to be answered as long question. Each question carries 15 marks.

6. Explain the array of pointers with example ? or  
Explain how pointers and arrays are related with example ?

**(Or)**

7. Define string. List out all string manipulation function. Explain any two with example.

**(Or)**

(K-008)

8. What is structure ? Explain the C syntax of structure declaration with example. Explain array of structure and structure within a structure with an example.

**(Or)**

9. What is File ? Explain all file opening mode with example.

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