**BCA 104N**

**B.C.A. (Part-I) EXAMINATION, 2024-25**

**(Iˢᵗ SEMESTER)**

**(CBCS System)**

**(BCA 104N : INTRODUCTION TO COMPUTER PROGRAMMING IN 'C')**

**Paper : IV**

Time : Three Hours]                [Maximum Marks : 75

**Note:** (i)   Answer five questions in all.

(ii)  Question No. 1 is compulsory.

(iii) Answer remaining four questions from Section A and B but not more than two questions from each Section.

(iv)  All questions carry equal marks.

(v)   Symbols have their usual meanings.

1.   Answer all parts of the following :

(a)   What do you understand by C tokens ?

(b)   Why C language is known as procedural language ?

(c)   What is algorithm ? Explain.

(d)   Write the difference between variables and constants.

(e)   What is the role of header files in C ?

## Section-A

2. What do you mean by conditional structure in C ? Give structure of if and else structure with the help of example.

3. How looping can be implemented in C ? What is the need of loops in programming ? Give structure of 'for' loop in C with the help of example.

4. What is the function in C ? Give an example of function with the explaining the function declaration, function calling and its arguments.

5. What do you mean by array in C ? Give various types of array in C. Write a program to implement the array with the help of pointers.

## Section-B

6. (a) Write a program to find whether a given number is odd or even.

   (b) Write an algorithm to find whether a given number is prime or not.

7. (a) Differentiate between "call by value" and "call by reference" with the help of example.

   (b) How can we change a "for" loop into "while" loop ?

8. (a) Explain the need of logical operators in conversion of nested if else into simple if structure.

   (b) Explain difference between "break" and "continue".

9. Write notes on any two of the following :

   (a) Structure of C program.

   (b) Data types in C.

   (c) Structure.

   (d) Storage class.

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