

Roll. No. :

BCA (N)-101

First Semester Examination, 2024 (June)

[Programming Using C]

Time : 2 Hours]

[Maximum Marks : 70

Note : This paper is of seventy (70) marks divided into two (2) Sections 'A' and 'B'. Attempt the questions contained in these sections according to the detailed instructions given therein. Candidates should limit their answers to the questions on the given answer sheet. No additional (B) answer sheet will be issued.

SECTION—A

(Long Answer Type Questions)

Note : Section 'A' contains five (5) long answer type questions of Nineteen (19) marks each. Learners are required to answer any two (2) questions only. **2 × 19 = 38**

BCA(N)-101/3

(1)

[P.T.O.]

1. Explain different data types in C.
2. Explain the different types of control statements in C.
3. Define function. Explain different classification of user defined functions based on parameter passing and return type with examples.
4. What do you mean by arrays and strings ? Explain with the help of an example.
5. Explain how structures are different from an arrays.

SECTION—B

(Short Answer Type Questions)

Note : Section 'B' contains eight (8) short answer type questions of Eight (8) marks each. Learners are required to answer any four (4) questions only. **4 × 8 = 32**

1. Write a program in C to calculate simple interest.
2. Explain the basic structure of a C program with an example.
3. What is the difference between user defined and library functions? Explain.
4. What is call by value and call by reference? Explain with an examples.

5. Write a C program to calculate the Fibonacci sequence using recursion function.
6. Differentiate between Structure and Union in C with an example.
7. Describe the concept of pointers with the help of an example.
8. Define the following term with an example.
 - (a) NULL character
 - (b) strlen() and strcmp()
