

Roll No.

Total Pages : 3

311102

December 2023

**BCA/BCA (DS) – I SEMESTER
Programming in C (BCA-23-103)**

Time : 3 Hours]

[Maximum Marks : 75

Instructions :

1. *It is compulsory to answer all the questions (1.5 marks each) of Part-A in short.*
2. *Answer any **four** questions from Part-B in detail.*
3. *Different sub-parts of a question are to be attempted adjacent to each other.*
4. *Write according to the marks allotted to the question. Don't elaborate unnecessarily.*

PART-A

1. (a) What are naming conventions for identifiers? (1.5)
- (b) What is structure of a C Program? (1.5)
- (c) What is inbuilt function? Give some examples of inbuilt functions. (1.5)
- (d) What is break statement used for? (1.5)
- (e) What do you mean by nested loop? (1.5)
- (f) What is goto statement used for? (1.5)

311102/790/111/247

472 P. T. O.

- (g) What is recursion? (1.5)
- (h) What is pointer variable? How it is different from normal variable? (1.5)
- (i) Give any two file handling functions. (1.5)
- (j) How string is declared and initialized in C? (1.5)

PART-B

- 2. Discuss with examples various types of operators available in C. Also give hierarchy of operators. (15)
- 3. (a) Discuss in detail various data types available in C. (8)
(b) What is difference between while loop and do while loop? Explain with example. (7)
- 4. (a) What is syntax of for loop? Write a program to find sum of first n natural numbers. (8)
(b) What is switch statement? Write a program of your own choice which explains the use of switch statement. (7)
- 5. (a) Discuss various storage classes and their scope. (8)
(b) What is function? Discuss various ways of passing parameters in a function. (7)
- 6. (a) What is difference between getch(), getche(), getchar() and gets()? Give example of each. (8)

- (b) What is an array? Write a program to search an element from an array. (7)

7. Discuss the following with example of each :

- (i) Structure. (5)
- (ii) Union. (5)
- (iii) Enumeration. (5)