

BCA First Semester Examination, Dec.-2019**THIRD PAPER****Programming in 'C'**

Paper Code:- 42103

Time Allowed: Three Hours**Maximum Marks.70**

(1) No supplementary answer book will be given to any candidate. Hence the candidates should write the answers precisely in the main answer book only.

(2) All the parts of one question should be answered at one place in the answer book.

(Attempt all six questions.)

Part I (Question No. 1& 2) is compulsory & Part II (Question No. 3, 4 , 5 & 6) has internal choice.

Part-I

1. Answer any 10 questions. Each question carries 1 mark.

10x1= 10

(Words limit up to 20 words each)

- a) What is Pseudo Code?
- b) What is an Algorithm?
- c) What is Enumerated Data Type? Give an example.
- d) What are the different methods to declare a constant in 'C'?
- e) What is Type Casting? Give an example.
- f) What is the difference between a do-while loop and a while loop?
- g) What is data type of a Pointer Variable?
- h) What is a NULL pointer? Give example.
- i) What is the difference between actual and formal parameters?
- j) What are Static Variables?
- k) What is the difference between Structure and Union?
- l) What is Binary Data File?

2. Answer all the questions. Each question carries 5 marks.

4x5 = 20

(Words limit up to 50 words each)

- a) Explain different data types available in 'C'.
- b) Write a 'C' program to find the length of a string without using built-in functions.
- c) How a string can be passed to a function as parameter? Explain with an example.
- d) Explain different types of Console I/O functions available in 'C' with suitable examples.

Part-II

Unit-I

3. Discuss different types of operators available in C with suitable examples.

10

OR

What are Preprocessors? Discuss some important preprocessors with their role in a C program.

2+8

Unit-II

4. Explain the following string functions with suitable examples:

(a) getch() (b) getchar() (c) getche() (d) scanf()

OR

Write a program in C to print the sum of all the elements of every row and every column of a MxN matrix of integers.

10

Unit-III

5. What do you mean by Recursion? Write a recursive program in 'C' to print all the elements of an array.

10

OR

Write a program in 'C' to calculate the sum of all the elements of an array of N integers using pointers.

10

Unit-IV

6. Write a program in 'C' to reverse the contents of a random file and print it.

10

OR

Write a program using structures to count the total number of days elapsed between two given dates.

10
