

Seat No. \_\_\_\_\_

**B.C.A Semester-I Examination**

~~OCT~~ NOV - 2017

**Paper Name: Introduction to Programming (C Language)**

**Paper No. CC-102.**

**Subject Code - 20199.**

**Time: 2:30 Hours**

**Total Marks: 70**

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|-----|--|----|
| Q-1 | (a) Define Flowchart. Explain symbol used to draw flowchart with suitable example. | 07 |
|     | (b) Explain C program structure in detail.   | 07 |
|     | OR   |    |
| Q-1 | (a) Write an algorithm and then draw flow chart for finding average of 10 numbers. | 07 |
|     | (b) Differentiate between Compiler and Interpreter                                 | 07 |
| Q-2 | (a) Explain operators available in 'C' with suitable example.                      | 07 |
|     | (b) What do you mean by loop? Explain do while loop with suitable example.         | 07 |
|     | OR   |    |
| Q-2 | (a) Explain Switch Statement   | 07 |
|     | (a) Explain If.... Statement with example.   | 07 |
|     | OR   |    |
| Q-3 | (a) What is array? Explain 1D array in detail.                                     | 07 |
|     | (b) Write a C Program to generate the following pattern.                           | 07 |
|     | 4 3 2 1  |    |
|     | 4 3 2  |    |
|     | 4 3  |    |
|     | 4  |    |
| Q-3 | (a) What is searching? Describe linear search with example.                        | 07 |
|     | (b) Write a program to print reverse integers number of a given number.            | 07 |
| Q-4 | (a) How to declare and initialize string and character in C? Explain in detail.    | 07 |
|     | (b) Explain the following mathematical functions syntax with Example.              | 07 |
|     | 1. sqrt() 2. pow() 3. ceil()   |    |
|     | OR   |    |
| Q-4 | (a) Explain the following functions syntax with example.                           | 07 |
|     | 1. strcat() 2. strcpy() 3. strlen()  |    |
|     | (b) How to declare and initialize string and character data?                       | 07 |
| Q-5 | (a) What is UDF? Explain in detail.  | 07 |
|     | (b) Explain no argument no return value type function with example.                | 07 |
|     | OR   |    |
| Q-5 | (a) How to pass array and string in function as arguments explain with example.    | 07 |
|     | (b) How many categories of function? Explain any two in detail.                    | 07 |