7. Using the concept of structure and arrays write a program in C language to store the data of all the students of your class each student record should have :

(Name, Registration No, Age, Gender). Enter the data of 40 students and then display it on the output screen. **15**

Unit IV

8. Explain the different modes in which afime can be opened in C. **15**

9. Write a program in C language for implementation of bubble sort. Show the steps how the following list will be sorted by your program : **15**

23, 15, 9, 37, 67, 98, 100

B212

B.C.A. EXAMINATION, May 2019

(Second Semester)

(B. Scheme) (Main & Re-appear)

(BCA)

BCA104B

PROGRAMMING IN C

Time : 3 *Hours*]   [*Maximum Marks :* 75

Before answering the question-paper candidates should ensure that they have been supplied to correct and complete question-paper. No complaint, in this regard, will be entertained after the examination.

Note : Q. No. **1** is compulsory. Attempt *four* questions from rest of the Units in all, selecting at least *one* question from each Unit. All questions carry equal marks.

1. Define the following : **15**

    (i)   Decision table

    (ii)   Syntax error

    (iii) Compiler

    (iv) Function prototype

    (v)   Type checking

    (vi) Variable

    (vii) Structured programming

    (viii) Operator associativity

    (ix) Enumerate data type

    (x)   Pointer.

Unit I

2. (a) Write five characteristics of a good algorithm. **10**

    (b) Differentiate between put(), putchar() and puts(). **5**

3. (a) Briefly describe the different data types supported by C language. **9**

    (b) Differentiate between formatted and unformatted output giving suitable example. **6**

Unit II

4. (a) Write a program in C that prints the even numbers from 1 to 200. **8**

    (b) Write a program in C that will accept length and breadth of a rectangle from the user and computes its area and perimeter. **7**

5. (a) With the help of suitable example illustrate the use of swith-case statement. **7**

    (b) Write a program in C to calculate the sum of digits of a number. **8**

Unit III

6. (a) Write a program in C to find the largest element of an array of integers. **8**

    (b) Write a program in C to copy one strong into another. **7**