

J-278

B.C.A. (Part-II) Examination, 2021

PROGRAMMING IN C++ AND VISUAL C++

Time Allowed : Three Hours

Maximum Marks : 100

Minimum Pass Marks : 40

Note : Attempt all five questions. One question from each unit is compulsory. All questions carry equal marks.

UNIT-I

Q. 1. Which are the various types of inheritance? Write a program for calculating simple interest with multiple inheritance. 20

OR

What is Polymorphism? Discuss its types with suitable program for function overloading.

(2)

UNIT-II

Q. 2. What is a class? Explain the concept of constructor and destructor with suitable example and program. 20

OR

What are base and derived class? Discuss the concept of various access specifier with suitable program.

UNIT-III

Q. 3. What is virtual function? Write a program to print your name with the use of virtual function. 20

OR

Discuss the concept of array in C++. Write a program for multiplication of two 3x3 matrix with class and objects.

(3)

UNIT-IV

- Q. 4.** Discuss the design features of object oriented programming with suitable example. **20**

OR

Explain the concept of architecture of object oriented database with suitable example.

UNIT-V

- Q. 5.** Discuss workspace & project in VC++ with architecture and suitable program. **20**

OR

Discuss the window object and view object with suitable example in VC++.