

Roll No. ....

**DD-2866**

**B. C. A. (Part II) EXAMINATION, 2020**

Paper Fifth

PROGRAMMING IN C++ AND VISUAL C++

*Time : Three Hours*

*Maximum Marks : 100*

*Minimum Pass Marks : 40*

**Note :** Attempt any *two* parts from each Unit. All questions carry equal marks.

1. (a) What are the characteristics of object oriented language ? Explain it.
- (b) Explain the following :
  - (i) Overloading
  - (ii) Object and Class
- (c) Describe about procedural language.
2. (a) Define structure. Write any program to store records of students using structure.
- (b) Explain string manipulation functions with example.
- (c) Define constructor and destructor with suitable example.
3. (a) What is Inline Function ? Explain with C++ program.

- (b) How does an array as class member ? Explain with example.
  - (c) Write a C++ program to find the area of circle and area of rectangle using function overloading method.
4. (a) Explain the types of relationships.
- (b) Describe relational vs. object oriented databases
  - (c) Explain the following :
    - (i) Object oriented design
    - (ii) Object type
5. (a) Explain the overview of VC++.
- (b) Explain the overview of MFC.
  - (c) Explain the following :
    - (i) VC++ workspace
    - (ii) Device context