

**H-94-21**

**Roll No. ....**

**ANNUAL EXAMINATION, 2021**

**B.C.A. II**

**B.C.A. 203**

**Paper III**

**(Programming in C++)**

Time : 3 Hours]

[Maximum Marks : 80

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

**Unit-I**

1. (a) What is OOP ? Write the application of OOP.
- (b) Discuss the constants and variables of C++ in detail.
- (c) Write a C++ program to demonstrate switch statement.

**Unit-II**

2. (a) Define structure. Explain how to access structure member with example.
- (b) Describe how to access constant to a function with example.

- (c) Write a C++ program to demonstrate return by reference.

**Unit-III**

3. (a) Write the differences between structure and class with example.
- (b) Discuss the static data member and static member function in detail.
- (c) Write a C++ program to demonstrate copy constructor.

**Unit-IV**

4. (a) Explain the pointer to object with example.
- (b) What is inheritance ? Write a C++ program to demonstrate multiple inheritances.
- (c) Discuss the access specifiers in brief.

**Unit-V**

5. (a) Describe the pure virtual function with example.
- (b) Write a C++ program to overload binary operator.
- (c) Explain the friend function with example.

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