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Roll No.

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B.C.A. (Part-II) Examination, 2022

(New Course)

Paper Third

PROGRAMMING IN 'C++'

(BCA 203)

Time : Three Hours]

[Maximum Marks:80

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

Unit - 1

1. (a) Describe the features of object oriented programming language.
- (b) Write short notes on the followings-
 - (i) Dynamic initialization of variable

(ii) Reference variable

- (c) Explain the use of break and continue statement within loop, using example.

Unit - II

2. (a) Describe call by value and call by reference with example.
- (b) What is function overloading? Explain with example.
- (c) How to pass structure as an argument to function?

Unit - III

3. (a) What do you mean by class? How to create object? What is inline function?
- (b) Describe copy constructor and parameterized constructor with example.
- (c) Explain the use of new and delete operator with example.

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Unit - IV

4. (a) Write short notes on the followings-
- (i) this operator
 - (ii) pointer to object
- (b) What is inheritance? Write a program in C++ to demonstrate multiple inheritance.
- (c) Describe public, private and protected access specifiers.

Unit - V

5. (a) Explain how to implement dynamic polymorphism using virtual function? What is abstract class?
- (b) What is operator overloading? Explain how to overload unary operator, with example.
- (c) What is friend function and friend class?