Following Paper ID and Roll No. to be filled in your Answer Book.

PAPER ID : 21113 Roll No. | | | | | | | | |

BCA Examination 2018-19

(Third Semester)

OBJECT ORIENTED PROGRAMMING USING C++

Time : Three Hours]   [*Maximum Marks* : 60

Note : Attempt all questions. All questions are compulsory.

SECTION 'A'

1. Attempt all parts of the following :   1×8=8

    (a) Explain the concept of scope resolution operator.

    (b) What do you mean by type compatability?

    (c) What ate default arguments?

    (d) How static data members are initialized?

(e) Explain the concept of const object.

(f) Give one example of hybrid inheritance.

(g) Wrtie a user defined manipulators equivalent to "\t".

(h) What are the three types of formaulated console I/O operations?

SECTION 'B'

Note : Attempt any two parts of the following : 6×2=12

2. (a) Explain the different concept of object oriented programming.

(b) Write a program to exchange values between two classes. Use friend function.

(c) What do you mean by inheritance? Describe the various types of inheritance with example.

(d) What are abstract classes? Explain the concept of pure virtual function with example.

SECTION 'C'

Note : Attempt all question from this section. Attempt any two question :   8×5=40

3. (a) What is the difference between class and structure?

   (b) Give the difference between structural and object oriented programming.

   (c) Explain the following :

      (i) Memory diffrencing operatiors

      (ii) Memory management operators

      (iii) Type cast operators

      (iv) Reference variables

4. Attempt any two question :

   (a) Explain the difference between call by values, reference and address using appropriate example.

   (b) Write a program to find the area of rectangle and circle use function overloading.

   (c) (i) What are static member variable and function.

      (ii) Explain the concept of friend class.

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5. Attempt any two question :

   (a)   What do you mean by copy constructer? Explain with example.

   (b)   What do you mean by virtual base class in inheritance? Explain the concept using example.

   (c)   (i)   What is the difference between private and protected access specifers in inheritance?

        (ii)   What are the advantages of inheritance?

6. Attempt any two question :

   (a)   Write a program to convert class type data to basic type data.

   (b)   What do you mean by operater overloading? Write a program to overload ++ operator in postfix style.

   (c)   What do you mean by exception handling? How are multiple catch block define?

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