

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

Roll No.

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BCA (Second Semester)
Even Semester Examination, 2015
PROGRAMMING IN C++

Time: 3.00 Hours]

[Max. Marks: 70

Note: Attempt any Two of the following: (2×5=10)

1. (a) Describe the features of OOPs paradigm; Is C++ a pure object oriented programming language, justify your answer.
- (b) Explain various data types of C++ language.
- (c) What is Encapsulation?

Note: Attempt any Four of the following: (4×5=20)

2. (a) What is default constructor? Illustrate the parameter initialization with the help of copy constructor.
- (b) Differentiate between multi level inheritance and multiple inheritance with suitable examples of C++ code.
- (c) Sketch the utility of scope resolution operator with examples.
- (d) What is early binding? How is it different from late binding?

(1)

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- (e) Explain the role of New and Delete operator with example?

Note: Attempt any Two of the following: (2×10=20)

3. (a) What is a virtual function? Write a program to show the usage of virtual function with virtual destructor.
- (b) Explain the use of stream manipulators with examples of C++ code.
- (c) Design a class for string and overload '+' operator to add two string objects of same class.

Note: Attempt any Four of the following: (4×5=20)

4. (a) What is operator overloading? Differentiate it from function overloading with example of C++ code.
- (b) What are qualifiers? How are they different from literals and constants? Explain with examples.
- (c) Describe the utility of inline function, Explain the calling procedure of inline functions.
- (d) Discuss the I/O streams in C++ along with stream error states.
- (e) Describe the working of Friend function.

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