BCA–301(O)

B. C. A. (Third Semester)
EXAMINATION, Dec., 2013

(Old Course)

Paper First

OBJECT ORIENTED DESIGN AND PROGRAMMING

Time : Three Hours]   [*Maximum Marks : 75*

Note : Section A is compulsory. Attempt any *seven* questions out of ten from Section B and *one* question from Section C.

Section—A

1. What is Inheritance ? Explain all its types.   7
2. Distinguish between the following terms :

    (i)   Function overloading and operator overloading   8

    (ii) Run time and compile time polymorphism

Section—B   6 each

3. Write a program in C++ to calculate the factorial of any number.

4. How we achieved inline function ? Explain with suitable example.

5. What is class ? How object is created in a class ?

6. Write a program to explain the use of operator overloading.

7. Describe all types of access specifier used in C++.

8. How any class in derived from base class ? Explain with example.

9. Write a program for the swapping of two integers.

10. Why do we use Friend function ? Describe its application.

11. What is Destructor ? Explain its working.

12. What do you mean by static data member ?

Section—C

13. (i) Describe virtual base class and virtual function. 10

    (ii) What is constructor ? Explain the types of constructor. 8

14. (i) Write a program for the addition of two complex numbers. 10

    (ii) Explain all the features of object-oriented programming. 8

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