



**BSIT 34 (OS)**

**III Semester B.Sc. (I.T.) Examination, June/July 2010  
OBJECT ORIENTED PROGRAMMING WITH C++**

Time : 3 Hours

Max. Marks : 75

***Instruction :** Answer **all** questions from Part – A and answer **any five** questions from Part – B.*

**PART – A**

**(12×2+1×1=25)**

1. What is a derived class ?
2. How do you access member functions ?
3. Explain enumerated constants.
4. Explain class templates.
5. What is a destructor ?
6. What is scope resolution factor ?
7. Define abstract class.
8. Explain hybrid inheritance.
9. What is bitwise operators ?
10. Define volatile qualifiers.
11. What is Unions ?
12. Define friend function.
13. What is #define ?

**P.T.O.**

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**PART – B**

**(5×10=50)**

1. Explain new and delete operators. Write example to show their uses.
  2. What is OOP ? Explain its features.
  3. Write a note on :
    - a) Polymorphism and its uses.
    - b) Static data member and static member function.
  4. Distinguish between multiple and multilevel inheritance with suitable example.
  5. Explain the visibility of member function based on private and protected.
  6. With example explain polymorphism.
  7. Explain the concept of dynamic memory allocation and freeing of memory in C++ with examples.
  8. a) Write a program to generate Fibonacci sequence using recursion.  
b) Explain scope resolution operator with example.
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