SD-1961   Seat No._____

B. Sc. (I.T.) (Sem. III) Examination
March / April – 2006
Oops With C++
(Common)

Time : **3** Hours]   [Total Marks : **100**

1 Explain the following with examples : (any **four**)   **20**

   (i)   Inline function

   (ii)   Virtual function

   (iii) Function overloading

   (iv)   Exception handling

   (v)   Manipulators.

2 Explain the following terms : (any **ten**)   **20**

   (i)   this pointer

   (ii)   Destructor

   (iii) Default argument

   (iv)   Copy constructor

   (v)   Pointer to object

   (vi)   Virtual base class

   (vii) Encapsulation

   (viii) Scope resolution operator

   (ix)   Function prototype

   (x)   Pointer

   (xi)   Call by reference.

3 Answer the following : (any **two**)   **20**

   (i)   Explain dynamic memory management operators available in C++.

   (ii)   What is polymorphism? Explain with suitable example.

   (iii) What is inheritance? Explain various types of inheritance.

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4   Answer the following : (any **four**)   **20**

    (i)   What is the difference between early binding and late binding.

    (ii)   Distinguish between automatic and static data members of a class.

    (iii) Explain type casting and type conversion.

    (iv) Explain friend function with example.

    (v)   Explain private, protected and public scope of class.

    (vi) Explain operator overloading with example.

5   Write a program : (any **two**)   **20**

    (i)   Write a program to append the content of one file to another.

    (ii)   Write a program for addition of matrices A and B by using class (size of matrices 3 x 4).

    (iii) Define a class student with appropriate variables for roll number and name. Write a method to sort the name in descending and ascending order.

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