



SP-1886

Seat No. _____

B. C. A. (Sem. IV) Examination

April / May - 2006

C++ & OOP

Time : **3 Hours**]

[Total Marks : **100**

1 Attempt any four : 20

- (a) Explain Encapsulation and Polymorphism.
- (b) Write a short note on CLASS and give the difference between C++ Structure and CLASS.
- (c) Write a short note on Memory Management Operator.
- (d) Explain scope resolution operator.
- (e) Explain Function Overloading.

2 Attempt any four : 20

- (a) Explain Static Data Member and Static Member Function.
- (b) What is Friend Function? Explain with suitable example.
- (c) What is constructor? Explain Copy Constructor.
- (d) Explain Pointer to Member Function.
- (e) Discuss various file stream classes.

3 Attempt any two : 20

- (a) What is inheritance? Discuss it's various forms in detail.
- (b) Explain various data type conversion from one class to another class type.
- (c) Explain Virtual Class and Virtual Function with suitable example.

4 Attempt any four : 20

- (a) Explain various file opening mode.
- (b) What is manipulator? Explain any two manipulators with example.
- (c) Discuss function template.
- (d) Explain exception handling in C++.
- (e) Explain following function :
get () write () seekg ()

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[Contd..

5 Attempt any **two** :

20

- (i) Define a class distance to represent a distance in feet and inch.

With overload operator '+' to calculate sum of two distances.

- (ii) Write a program which accepts two file names as command line arguments and append the content of first file in the second file.

- (iii) Create a class student having seatno & name as member variables. Class test is derived from student and result class is derived from test. Test class accept the three subject marks and in result class display the total and percentage. Enter seatno, name and marks for five student and display the mark sheet for each student.
