STELLA MARIS COLLEGE (AUTONOMOUS) CHENNAI 600 086
(For candidates admitted from the academic year 2004-05 & thereafter)

PGDCS EXAMINATION, APRIL 2007
SECOND SEMESTER

COURSE : **MAJOR CORE**
PAPER   : **OBJECT ORIENTED PROGRAMMING**
TIME   : **1½ HOURS**   **MAX. MARKS: 50**

SECTION – A

Fill in the blanks: **5x1=5**

1.   A _____ class inherits properties from a base class.

2.   Class members are _____ by default.

3.   A special member function that is used to initialize the objects of its class is a
     _____.

4.   _____ keyword is used to represent an object that invokes a member
     function.

5.   When we use the same function in both the base and derived class the function in
     _____ is declared as virtual.

Choose the correct answer: **5x1=5**

6.   Which of the following operator cannot be overloaded?
     a) +   b) -   c) =   d) ?:

7.   Which of the following cannot be passed to a function?
     a) Reference variable   b) Arrays   c) class objects   d) Header files

8.   _____ means the code associated with a given procedure is not known
     until the time of the call at run-time.
     a) Data abstraction   b) Dynamic binding
     c) Dynamic allocation   d) Data hiding

9.   The function that gives the current position of the get pointer is
     a) seekg()   b) seekp()   c) tellg()   d) tellp()

10. _____ are used to define generic classes.
     a) Templates   b) Virtual functions   c) Inline functions   d) Objects

SECTION – B

Answer all the following: 5x2=10

11.   What is the difference between a private and a protected class member?

12.   What is an Inline function?

13.   What is a destructor? How is it used in a program?

14.   Write a program to show how arrays are used within a class.

15.   What is multilevel inheritance?

SECTION – C

Answer any six of the following: 6x5=30

16.   Explain pass by value and pass by reference way of passing values to functions.

17.   State the special characteristics a friend should possess.

18.   Explain constructors with default arguments.

19.   Explain overloading binary operator using a program.

20.   Write a program to explain multiple Inheritance. Write two classes class1 and class2 and write another class that will inherit attributes of both the classes.

21.   When are virtual functions used? How is it used in a program?

22.   Write an essay on sequential input and output operations.

23.   How are exceptions handled using try, throw and catch? Explain with a program.

✼✼✼✼✼✼✼✼✼