PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)

MSc DEGREE EXAMINATION MAY 20X8
(Second Semester)

Branch - STATISTICS

CORE ELECTIVE-! : <u>COMPUTER PROGRAMMING C++</u>

Time: Three Hours   Maximum: 75 Marks
Answer ALL questions
ALL questions carry EQUAL marks   (5 x 1 5 = 75)

1 a Explain the basic concepts of object oriented programming.   (10)

   b Write short note on application of OOP.   (5)
                                 OR
   c List the operators of C++.   (10)

   d Discuss the Tokens and expressions of C++.   (5)

2 a Write in detail about the Friend function with an example program. (10)

   b Explain the Inline function with general format and example.   (5)
                                 OR
   c Explain the concept of function overloading with an example.   (10)

   d Write about the static member functions with an example.   (5)

3 a Explain the copy constructor with an example.   (10)

   b Write any five special characteristics of constructor.   (5)
                                 OR
   c Explain unary operator overloading with an example.   (10)

   d Define Destructor. Explain it with example.   (5)

4 a Briefly explain the Multiple Inheritance with example.   (10)

   b Write a short note on this pointer.   (5)
                                 OR
   c Explain the concept of a virtual function with an example.   (10)

   d What are abstract classes?   (5)

5 a Write in detail about C++ stream classes.   (10)

   b Write short note on Manipulators.   (5)
                                 OR
   c Explain the File pointers and their manipulation.   (10)

   d Write short note on classes for file stream operations.   (5)

Z-Z-Z   END