Q.1. Write answers for any two questions from below. (5 marks each – Word limit – 500)

A. Define inline function. Write a C++ program for finding the area of a triangle using inline functions.

B. Explain the visibility of base class members for the access specifiers: private, protected and public while creating the derived class and also explain the syntax for creating derived class.

C. What is a virtual destructor? Explain with an example.

Q.2. Write short notes on all of the following topics (1 mark each - Word limit - 100)

A. What is class template? Explain with examples.

B. Friend Function

C. Assignment and Append operators of string.

D. Tokens

E. Inheritance

Q.1. Write answers for any two questions from below. (5 marks each – Word limit – 500)

A.   Define function overloading. Write a C++ program to define three overloaded functions to swap two integers, swap two floats and swap two doubles.

B.   Write the procedure to create user defined manipulators?

C.   Describe the three different inheritance behaviors achieved through the use of pure virtual, ordinary virtual and non-virtual functions?

Q.2. Write short notes on all of the following topics (1 mark each - Word limit - 100)

A.   Constructor

B.   Late Binding

C.   setfill()

D.   Pure Virtual Function

E.   rules associated with virtual functions