EASTERN UNIVERSITY, SRI LANKA
DEPARTMENT OF MATHEMATICS
FIRST EXAMINATION IN SCIENCE – 2010/2011
SECOND SEMESTER (June, 2013)
CS 153 – PRACTICAL WORK ON CS 104
(Proper & Repeat)

Answer all questions   **Time: 2 Hours**

Q1.   Write a C++ program that calculates and prints the sum of the integers from 1 to 10.

Q2.   Write a C++ program to overload binary + operator.

Q3.   Using C++, define a function *area*( ) to compute the area of objects of different classes – *triangle*, *rectangle* and *square*. Invoke these in the main program.

Q4.   Using C++, create a class *Time* that has separate integer member data for *hours*, *minutes* and *seconds*. One constructor should initialize this data to zero and another constructor initializes it to fixed values. Write member function to display time in *12 hour* as well as *24 hour* format. The final member function should add two objects of class *Time*. A *main*( ) program should create three objects of class *time*, of which two are initialized to specific values and third object is initialized to zero. Then it should add the two initialized values together, leaving the result in the third. Finally it should display the value of all three objects with appropriate headings.