

EASTERN UNIVERSITY, SRI LANKA

Second Examination in Science 2005/2006

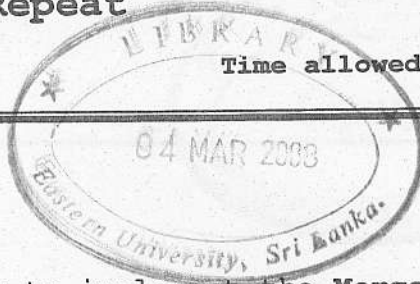
First Semester - September 2007

CS 251 – Practical work on Data Structures & Design of Algorithms

Repeat

Answer all questions

Time allowed: 02 Hours



Q1)

- a) Write a C++ function to implement the Merge sort algorithm.
- b) Write a main program to test your function.

Save your program as **Que1.cpp**

Q2)

- a) Implement a Stack ADT class named **ADTStack** with the data type of character.
- b) Implement the operations that can be done in Stack ADT including the following operations.
 - a. push(char c)
 - b. pop()
 - c. isEmpty()
 - d. isFull()
- c) Write a main program to test your function.

Save your program as **Que2.cpp**