



**EASTERN UNIVERSITY, SRI LANKA**  
**EXTERNAL DEGREE**  
**SECOND EXAMINATION IN SCIENCE -2009/2010**  
**FIRST SEMESTER (May/June, 2012)**  
**EXTMT 251 – PRACTICAL WORK ON EXTMT 206**

Answer all questions

Time: Two hours

1)

Write a class in java with following description:

**Private Members**

A data member Flight number of type integer

A data member Destination of type string

A data member Distance of type float

A data member Fuel of type float

A member function CALFUEL( ) to calculate the value of Fuel as per the following criteria

Distance	Fuel
$\leq 1000$	500
more than 1000 and $\leq 2000$	1100
more than 2000	2200

**Public Members**

A function FEEDINFO( ) to allow user to enter values for Flight Number, Destination, Distance and call function CALFUEL( ) to calculate the quantity of Fuel.

A function SHOWINFO( ) to allow user to view the content of all the data members.

Q2) Write a Java program to prepare the mark sheet of a university examination with the following conditions:

Design a base class named as “**Student**” consisting of data members Name of the student and Roll no. The derived class named as “**Marks**” consists of the data members Student name, Subject code and Exam\_Marks.

Functions in Base class:

getDetails() // Enter name and Roll no

display() // Display name and Roll no

Functions in Derived class

getMarks() // Enter Subject name, code and Exam\_Marks

displayMarks() // Display Subject name, code and Exam\_Marks

Create object for the derived class and call the following functions:

getDetails();

display();

getMarks();

displayMarks();