

**EASTERN UNIVERSITY, SRI LANKA**

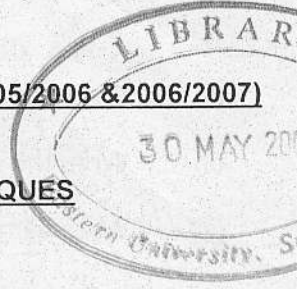
**FIRST YEAR SECOND SEMESTER EXAMINATION IN SCIENCE(2005/2006 & 2006/2007)**

**(MARCH/ APRIL, 2008)**

**CS 153 – OBJECT ORIENTED PROGRAMMING TECHNIQUES**

**(PRACTICAL WORK ON CS104)**

**(REPEAT)**



**Answer all Questions**

**Time: 02 Hours**

**Question 01**

(a) Considering the following specifications :

Class Name	Data	Type	Size
Name	first	array of character	40
	mid	array of character	40
	last	array of character	60
Phone	area	array of character	4
	exch	array of character	4
	numb	array of character	6

Class Name	Data	Type
P_rec	name	Name
	phone	Phone

- (i) Declare classes in C++ for Name and Phone.
- (ii) Declare a class for P\_rec.
- (iii) Define the constructor (outside the class P\_rec) that gathers information from the user for the above two classes Name and Phone.

Write a program to test these declarations.

(b) Consider the following class declaration and answer the questions below :

```
class SmallObj
{
    private :
        int some,
        more ;
        void err_1() {cout << "error" ; }
    public :
        void Xdata(int d) {some = d ; more = d++ ; }
```

```
void Ydata( ) {cout << some << " " << more ; } };
```

- (i) Write the name that specifies the above class.
- (ii) Write the data of the class with their access scope.
- (iii) Write all member functions of the class along with their access scope.
- (iv) Indicate the member function of the SmallObj that sets data.

Write a program to illustrate above details and run the program in C++.

### Question – 02

Define a class to represent a bank account, include the following members:

Data members :

- (i) Name of the Depositer.
- (ii) Account no.
- (iii) Type of account (Saving –S, Current –C).
- (iv) Balance Account.

Member Functions:

- (i) To assign initial values.
- (ii) To deposit an amount.
- (iii) To withdraw an amount after checking the balance.
- (iv) To display name and Balance.

Write a program in C++ to test the above class and run the program.