

EASTERN UNIVERSITY, SRI LANKA DEPARTMENT OF MATHEMATICS FIRST EXAMINATION IN SCIENCE (2013/2014) SECOND SEMESTER (Apr/May, 2016)

SECOND SEMESTER (Apr/May, 2016) CS153 – PRACTICAL WORK ON CS 104

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TIME: TWO HOURS

- 1) Write a C++ program to demonstrate the overloading of *binary* operator by subtracting one complex number from another.
- 2) Write a C++ program to overload unary ++ operator.
- 3) 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.
- 4) Define a class *Publication* which has a *title* and a *price*.

Define the methods:

void getData()

// To read title and price

void print()

// To display title and price

Derive two classes from it.

- · A class Book which has an accession number.
 - o Functions:
 - getData()

// To read accession number

print()

// To display accession number

- · A class Magazine which has volume number.
 - o Functions:

getData()

// To read volume number

print()

// To display volume number

With these two as bases, derive the class *Journal*, which has a *name* of the Journal.

- o Functions:
 - getData()

// To read Journal name

print()

// To display Journal name

Ensure that the derived class function always invokes the base(s) class function.

In main() create a object for the class Journal. Invoke the getData() and print() functions for sobject.