THE OPEN UNIVERSITY OF SRI LANKA
B.Sc. DEGREE PROGRAMME: LEVEL 04
DEPT. OF MATHEMATICS AND COMPUTER SCIENCE
NO BOOK TEST TWO (NBT-2): 2011/2012
CPU 2242: OBJECT ORIENTED PROGRAMMING USING C++ & JAVA
DURATION: ONE AND HALF HOURS (1 ½ HOURS)



Date: 07th November 2011

Time: 4.00pm - 5.30pm

Answer ALL questions.

1)

- a) Compare and contrast Object vs Class in the context of Object Oriented Programming
 - b)
- i) What is data abstraction?
- ii) Encapsulation is an important feature in Object Oriented Programming (OOP). Describe how encapsulation is used in programming.
- iii) "In an object, encapsulated data members are global to object methods and local to object". Discuss the statement.
- c) Briefly explain Inheritance and Polymorphism in the context of OOP.
- 2)
- a) State and describe three (03) Access regions in C++. Why Access regions are used in programmes?
- b) Constructors and Destructors are featured concepts in Object Oriented Programming.
 - i) Briefly describe three (03) basic kinds of constructors in C++.
 - ii) Describe the difference between Constructor and Destructor using proper C++ coding example.
- c) What is a user defined copy constructor? Give a proper C++ coding example for a user define copy constructor.

3) Write a complete programme (C++ or Java) using OOP approach to implement the following class.

BankAccount
accountNumber
holderName
currentBalance
getCustomerData() deposit() withdraw()

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