THE OPEN UNIVERSITY OF SRI LANKA
DEPARTMENT OF MATHEMATICS AND COMPUTER SCIENCE
B.SC. DEGREE PROGRAMME 2011/2012
CLOSED BOOK TEST – 1
CPU2242: OBJECT ORIENTED PROGRAMMING USING C++ AND JAVA
DURATION: ONE AND HALF HOURS ONLY (1.5 HRS)

Date: 02ⁿᵈ **September, 2011**	Time: **4.00 pm – 5.30 pm**

Answer **ALL** Questions.

Q1).

i. What is meant by *Pseudo code*, *Source code* and *Object code*?
ii.
    a. When the program is running it produces a number that is too large to fit into the space allocate for it in memory. What type of error is this?
    b. A program runs without any errors being reported but outputs results that are wrong, what type of error is this?
iii.
    a. Briefly describe the process of designing a program.
    b. If programs can be designed, using the process described in the above question ((iii) a), why are there be a software crisis?

Q2).

i. List the major differences between the *procedure-oriented* and *object-oriented* techniques.
ii. What are the differences in analyzing requirements at *domain analysis* and *object oriented analysis* phase?
iii. What is the first Object Oriented Programming language and what are the Object Oriented concepts implemented in it?

Q3).

i. List the limitation of C++ compared with Java.
ii. What is the Java platform?
iii. What is meant by java bytecode?
iv. Discuss the role of the Java Virtual machine (JVM)

All Rights Reserved