THE OPEN UNIVERSITY OF SRI LANKA
DEPARTMENT OF MATHEMATICS AND COMPUTER SCIENCE
B.SC. DEGREE PROGRAMME 2010/2011
CLOSED BOOK TEST: 01
CPU2140: FUNDAMENTALS OF SYSTEM ANALYSIS AND SOFTWARE ENGINEERING
DURATION: ONE AND HALF HOURS ONLY (1.5 HOURS)

Date: 17ᵗʰ February, 2011   **Time: 4.00 p.m. to 5.30 p.m.**

Answer ALL Questions.

1)

   a. What is Software Engineering?

   b. Briefly describe the importance of Software Engineering for the today.

   c. Compare and contrast the software engineering process models "waterfall model" and "evolutionary development".

2)

   a. Discuss the role of a project manager in a Software development project.

   b. Explain the risk management process.

   c. Identify product and project risks associated with a Web based system construction for a small and medium company.

3)

   a. *"Software engineers should focus only on functional requirements of a software system"*. Comment on this statement.

   b. Identify and discuss the attributes of a good software requirement specification.

   c. *"Software requirement specification should specify what the system should do but not how the final system works"*. Do you agree with this statement? Justify your answer.