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THE OPEN UNIVERSITY OF SRI LANKA
DEPARTMENT OF MATHEMATICS AND COMPUTER SCIENCE
B.Sc. DEGREE PROGRAMME 2012/2013
NO BOOK TEST 01
CPU3147: SOFTWARE QUALITY ASSURANCE
DURATION: ONE AND HALF HOURS ONLY (1.5 HOURS)



Date: 10th February 2013

Time: 11.00 am to 12.30 pm

Answer ALL Questions.

Q1).

- i.
 - a. What is *Software Quality Assurance*?
 - b. Explain the difference between *Software Quality Assurance* and *Software Testing*?
- ii. There is a saying as follows in Software Quality Assurance:

 "Too little testing is a crime --- too much testing is a sin"
 - a. What is meant by "*too much*" in the above statement?
 - c. Why it is mentioned as "*too much testing is a sin*" in the above statement? (Give 3 reasons.)
- iii. "*Every software project needs Software Quality Assurance Engineers.*" Comment on this statement.

Q2).

- i.
 - a. What is the difference between *Static testing* and *dynamic testing*?
 - b. Explain the involvement of *static testing* in the *software development life cycle*?
- ii. Discuss the following review techniques:
 - a. Inspections
 - b. Walkthrough
- iii. Discuss the benefits of the involvement of *reviews* in the software quality assurance process.

Q3).

- i.
 - a. Explain the importance of the *test design techniques*.
 - b. What are the categories of test design techniques?
- ii. Discuss the importance of *early test design*.
- iii. Explain the factors that need to consider when selecting a test design technique.

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