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**SOUTH EASTERN UNIVERSITY OF SRI LANKA**

**FORTH EXAMINATION IN BACHELOR OF BUSINESS ADMINISTRATION /  
BACHELOR OF COMMERCE – 2009 / 2010**

**SEMESTER – I, AUGUST - 2011**

**MIS 4107 - SOFTWARE ENGINEERING**

**Answer all Question.**

**Time: 3 hours**

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Q-01

- a) System requirements are very important aspect in the software development process Discuss the following
- I. Participant those who are involving in the requirement process
  - II. Requirement validation method
- (8 Marks)
- b) There are several steps in testing a system Discuss system testing process
- (8 Marks)
- c) Distinguish programming and design
- (4 Marks)

Q-02

- a) Explain the factors that have to be considered by a Project Manager for effective Software Project Management.
- (6 Marks)
- b) Explain the causes which may fail the successful development of a software product and put forward the suggestions from technical and managerial point of view to surmount above failures.
- (8 Marks)
- c) Explain the terms Bar chart and Activity Network with suitable illustration.
- (6 Marks)

Q-3

- a) Explain the issues in System Design Creation with suitable examples.
- (6 Marks)
- b) Explain the various Types or Styles in Structuring a Software System with relevant diagram.
- (8 marks)
- c) Explain the term Decomposition and Modularity in the concept of designing effective software system.
- (6 Marks)

Q-04

- a) Explain the different ways of conducting Software maintenance with suitable example. (6Marks)
- b) Explain the terms Forward Engineering and Reverse Engineering with suitable example (4Marks)
- c) Discuss the Problems managers encounter when Managing Software Maintenance (6 Marks)
- d) Explain the measures to make sure the software maintenance effectiveness. (4Marks)

Q-05

- a) The most obvious criterion for a successful software solution has to be whether the software solves the client's problems, Discuss software evaluation approaches (6 Marks)
- b) Explain Software assessment and Prediction (6 Marks)
- c) Write short notes on the following
  - I. Improving Process
  - II. Improving Resources(8 Marks)