

FOURTH EXAMINATION IN BACHELOR OF BUSINESS ADMINISTRATION &  
COMMERCE - 2006/2007  
SEMESTER - I, DECEMBER - 2007

MIS 4107 – SOFTWARE ENGINEERING

Answer all questions

Time: 03 Hours

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01. a. List 5 attributes of a good software product and explain the importance of these attributes in user's perspective. (10 Marks)
- b. How does Software Engineering differ from Programming? (10 Marks)
02. a. Compare Software Waterfall model and spiral model as software development process models. (10 Marks)
- b. Discuss advantages and disadvantages of the evolutionary development model. (10 Marks)
03. a. Using examples, explain the difference between validation and verification. (10 Marks)
- b. "If non functional requirements are not satisfied, the entire software product is useless". Do you agree with the above statement? Justify your answer. (10 Marks)
04. a. Compare top down testing method and bottom up testing (05 Marks)
- b. Briefly explain the Black box testing (05 Marks)
- c. List and explain 5 user interface design principles. (10 Marks)
05. a. You are given the responsibility to market your employer's software development Firm to potential customers. You are rewarded with a 5% commission on the sale for each customer gained. Your fist appointment is with Mrs. Gratitude who

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requires software to help manage her business. However, she is learning towards taking her problem to rival company, as she is very concerned about the time taken to develop the product. To arrest her fears you promise her that you would use the latest CASE tools to help manage all aspects of the development process, including analysis modeling and maintaining data dictionaries.

Mrs. Gratitude asks you to explain the following:

- a. What does CASE tools have to do with software engineering?  
(05 Marks)
- b. What is analysis modeling?  
(05 Marks)
- c. Define data dictionary giving an example of what one may contain  
(05 Marks)
- d. How could the use of these tools minimize the duration of the Software development process?  
(05 Marks)

