

Roll No

MSE - 103
M.E./M.Tech I Semester
Examination, June 2013
Software Engineering

Time : Three Hours

Maximum Marks : 70

Note: Attempt any five questions. All questions carry equal marks.

1. a) What is system engineering? Give its hierarchy.
b) Explain how do the use of software engineering principles help to develop software products cost-effectively and timely. Elaborate your answer by using suitable example.
2. a) Discuss the various elements of analysis modeling?
b) Distinguish between product engineering and requirement engineering.
3. a) If the prototyping model is being used in the development effort, is it necessary to develop on SRS document? Justify your answer.
b) What are the different models of a problem that can be constructed using UML? Why is it necessary to construct more than one type of model of a problem?
4. a) What do you mean by the terms cohesion and coupling in the context of software design? How are these concepts useful in arriving at a good design of a system?

- b) Discuss the implications of human cognition capabilities on user Interface Design?
5. a) What do you understand by component based user interface development? What are the advantages of component based user interface development?
b) Do you agree with the following statement: "System testing can be considered a pure black box test"? Justify your answer.
6. a) What are the different approaches to integration testing? Which approach is the most suitable for large software systems? Why?
b) What is Formal Technical Review (FTR)? Discuss its objectives.
7. a) What is software quality? Discuss various McCall's quality factor.
b) What is the difference between process metrics and product metrics? Give four examples of each.
8. Write short notes :
 - i) Function Based Metrics
 - ii) Interface Design Metrics
 - iii) Unit Testing
 - iv) Design Evaluation
 - v) Behavioral Modeling.

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