

Code No: C5808, C0503

**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD
M.TECH I - SEMESTER EXAMINATIONS, APRIL/MAY-2012
SOFTWARE DESIGN AND ENGINEERING
(COMMON TO COMPUTER SCIENCE AND ENGINEERING, COMPUTER
SCIENCE)**

Time: 3hours**Max. Marks: 60**

**Answer any five questions
All questions carry equal marks**

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- 1.a) What is meant by Software and Software Engineering ? Discuss evolving role of software.
- b) Compare the incremental process models and evolutionary process models.
- 2.a) Discuss specialized process models and unified process.
- b) What are the Quality attributes of the design product? Explain how to assess them.
- 3.a) What is meant by a design pattern? Discuss briefly various design patterns.
- b) Explain the process of design by composition with an example.
- 4.a) Explain the object oriented paradigm and object oriented frameworks.
- b) What is meant by the term “components”? Discuss about COTS.
- 5.a) Discuss why effective user interface design is important for a software product.
- b) What are the various responsibilities of a project manager? Discuss the critical practices in project management.
- 6.a) Distinguish between process metrics and project metrics? And also discuss about use – case metrics.
- b) Define the term “Software Quality”. Explain various metrics for assessing software quality.
- 7.a) Compare size – oriented metrics and function – oriented metrics.
- b) What is meant by task network and timeline charts? Explain them with suitable examples.
- 8.a) Discuss how to identify software risks? And also discuss about RMMM plan.
- b) Explain about risk projection and risk refinement.

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