

R09

Code No: F3304

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

MCA III Semester Examinations, February 2012

SOFTWARE ENGINEERING

Time: 3hours

Max.Marks:60

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

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1. a) Compare the Incremental Process models with the Evolutionary process models.
b) Distinguish between software process and software project. Discuss the drawbacks of waterfall model when compared to other models.
2. a) What is CMMI? Compare the personal and team process models.
b) Distinguish between user requirements and system requirements. Write an outline of a software requirements specification document.
3. What are various system models? Explain them with suitable examples.
4. a) Discuss the importance of design phase in software engineering. And also explain about the pattern based software engineering.
b) Explain various architectural styles and patterns.
5. a) Discuss the guidelines which focus general interaction in the process of user interface design.
b) Explain with an example how to map data flow into software architecture.
6. a) Compare validation testing with the system testing.
b) Distinguish between bug and error. And also discuss various debugging approaches.
7. a) Discuss the metrics for maintenance and the metrics for testing.
b) Define the term "Software Risk", and also discuss various risk identification methods.
8. Write short notes on the following:
 - a) The ISO 9000 quality standards
 - b) Software Reliability
 - c) Legacy software.
