

Code No: 55029

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD**B. Tech III Year I Semester Examinations, February/March - 2016****SOFTWARE ENGINEERING****(Common to CSE, IT)****Time: 3 Hours****Max. Marks: 75****Answer any five questions
All questions carry equal marks**

1. What is meant by software engineering? Discuss about CMMI and process patterns. [15]
- 2.a) Distinguish between functional requirements and nonfunctional requirements.
b) Explain the structure of a software requirements document. [8+7]

3. What is meant by requirements elicitation? Explain about requirements validation and management. [15]
4. Discuss the process of mapping data flow into software architecture, and also discuss about software architecture. [15]
- 5.a) Discuss about conducting component level design.
b) State and explain the interface design steps. [8+7]
6. What are the test strategies for conventional software? State and explain various debugging approaches. [15]
7. What is meant by software risk? Discuss about reactive and proactive risk strategies. [15]
8. What is meant by software review? Discuss about formal technical reviews. [15]

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