

Code No: 07A60511

R07**Set No. 2****III B.Tech II Semester Examinations, APRIL 2011****SOFTWARE ENGINEERING****Electronics And Computer Engineering****Time: 3 hours****Max Marks: 80**

Answer any FIVE Questions
All Questions carry equal marks

1. (a) Define software. Explain various types of software available.
(b) Explain various characteristics of software. [8+8]
2. (a) What is data abstraction? Give an example.
(b) Differentiate between procedural and data abstractions. [8+8]
3. Define software requirements document. Explain the structure of it in detail. [16]
4. (a) Discuss clearly the Unit test procedures and environment.
(b) What is Integration testing? Discuss about top-down integration. [8+8]
5. (a) Discuss in detail the defect amplification with reviews and without reviews.
(b) When are the formal technical reviews conducted? And what are its objectives? [10+6]
6. (a) Discuss the statements, "view points provide different types of requirements".
(b) Differentiate between interactor and indirect view points. [8+8]
7. (a) Describe five software application areas in which software safety and hazard analysis would be a major concern.
(b) Can you think of a situation in which a high probability, high-impact risk could not be considered as a part of your RMMM plan? [10+6]
8. You have been asked to develop a web based home banking system. In the process of developing user interface, develop a user model, design model, mental model, and an implementation model. [16]

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Set No. 4

III B.Tech II Semester Examinations, APRIL 2011

SOFTWARE ENGINEERING

Electronics And Computer Engineering

Time: 3 hours

Max Marks: 80

**Answer any FIVE Questions
All Questions carry equal marks**

1. (a) What is software quality control?
(b) Discuss the components of the cost of quality. [8+8]
2. Elaborate on software design engineering in detail. [16]
3. (a) What is interviewing? Explain various types of it.
(b) Explain the problems associated with interviewing. [8+8]
4. State and explain with an example the various methods to identify object classes. [16]
5. (a) Discuss the metrics for specification of quality.
(b) Discuss clearly the architectural design metrics [6+10]
6. (a) Discuss about software tools for project and process metrics.
(b) Discuss any four useful indicators for software quality. [8+8]
7. (a) What is a non-functional requirement ? Give any four examples for it.
(b) Discuss the statement, "the term requirement is not used in the software industry in a consistent way". [8+8]
8. (a) What is software process modeling? Explain the various tools for it.
(b) Differentiate between staged and continuous CMMI. [8+8]

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R07**Set No. 1****III B.Tech II Semester Examinations, APRIL 2011****SOFTWARE ENGINEERING****Electronics And Computer Engineering****Time: 3 hours****Max Marks: 80**

Answer any FIVE Questions
All Questions carry equal marks

1. (a) What is meant by FTR? Discuss about review reporting and record keeping.
(b) State and explain the guidelines for formal technical reviews. [8+8]
2. Elaborate on the changing nature of software in detail. [16]
3. (a) Compare the reactive and proactive risk management strategies.
(b) What types of risks are we likely to encounter as software is built? [6+10]
4. What is an evolutionary process model? Differentiate between evolutionary and Incremental process models. [16]
5. (a) What is meant by Exhaustive testing?
(b) What is meant by white-box-testing? What are the aspects to be considered while generating of white box test cases [6+10]
6. (a) List various questions which will help the interface designer better understand the users of a system.
(b) What is task analysis and modeling? Discuss the goal of task analysis. [8+8]
7. (a) What is FURPS? Explain.
(b) Explain how functionality of software design is assessed? [8+8]
8. (a) What is requirements classification? Explain the significance of it.
(b) Discuss the need for requirements prioritization and negotiation. [8+8]

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R07**Set No. 3****III B.Tech II Semester Examinations, APRIL 2011****SOFTWARE ENGINEERING****Electronics And Computer Engineering****Time: 3 hours****Max Marks: 80**

Answer any FIVE Questions
All Questions carry equal marks

1. (a) Explain about prototyping in detail.
(b) Discuss the problems associated with prototyping. [8+8]
2. (a) What is Debugging? Discuss the Debugging strategies.
(b) Discuss about software tools for debugging [8+8]
3. State and explain clearly the various user interface design issues. [16]
4. (a) Discuss in detail about software safety.
(b) Discuss the ISO 9001:2000 standard. [6+10]
5. (a) What is meant by risk estimation?
(b) With an example explain how to develop a risk table [6+10]
6. (a) Explain the need of behavioural models for software development.
(b) What is state machine? Explain the state machine model of a simple microwave oven. [8+8]
7. (a) Discuss the statement, "software is both a product and a vehicle for delivering a product".
(b) Explain the role of software in democratization of knowledge. [8+8]
8. (a) Explain about architectural patterns in detail.
(b) Discuss various criteria for assessing an architectural design. [8+8]
