Code No: 07A60511 **R07** **Set No. 2**

**III B.Tech II Semester Examinations,December 2010**
**SOFTWARE ENGINEERING**
**Electronics And Computer Engineering**

**Time: 3 hours** **Max Marks: 80**

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

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1. Elaborate on concurrent development model in detail. [16]

2. (a) What is meant by software quality measurement? What are the things that are covered in SQA?
   (b) Discuss the importance of quality assurance. [10+6]

3. (a) Discuss the steps in Bottom-up integration.
   (b) Bottom-up integration eliminates the need for complex stubs. Discuss.
   (c) Regression testing is an important strategy for reducing "side effects". Discuss. [6+6+4]

4. (a) Discuss the relationship between lines of code and function points.
   (b) What is Object-Oriented metrics and how it is different from LOC and FP metrics? [8+8]

5. (a) How do we determine the format and aesthetics of content displayed as part of the user interface?
   (b) Discuss the importance of analysis of the work environment in user interface design. [10+6]

6. (a) Define coupling and cohesion.
   (b) What is desirable coupling and cohesion in software design. [8+8]

7. (a) Define scenario. Differentiate between scenario and interviewing.
   (b) How are scenarios are useful for describing requirements. [8+8]

8. (a) What is process pattern? Differentiate between task and stage patterns.
   (b) Elaborate on related patterns. [8+8]

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Code No: 07A60511 **R07** **Set No. 4**

**III B.Tech II Semester Examinations,December 2010**
**SOFTWARE ENGINEERING**
**Electronics And Computer Engineering**

**Time: 3 hours** **Max Marks: 80**

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

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1. Elaborate on software design engineering in detail. [16]

2. (a) Discuss the importance of software process and project metrics.
   (b) What are the determinants for software quality and organizational effectiveness? [8+8]

3. (a) Explain about software evolution in detail.
   (b) Differentiate between system and application software. [8+8]

4. (a) Describe the benefits that smoke testing provide, when it is applied on complex, time critical software engineering projects.
   (b) What is a "Critical Module" and why should we identify it?
   (c) Discuss about integration test documentation. [6+6+4]

5. (a) Define spiral model. Explain the characteristics of it.
   (b) Differentiate between spiral and prototyping models. [8+8]

6. (a) Discuss about product standards and process standards.
   (b) What are the areas covered by ISO 9001 model for quality assurance. [8+8]

7. What are the different static and dynamic models that UML provides to document the design? Discuss them clearly with suitable examples. [16]

8. (a) Discuss the statement, "requirements elicitation is a human-centered activity".
   (b) Explain about feasibility studies. [10+6]

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Code No: 07A60511 **R07** **Set No. 1**

**III B.Tech II Semester Examinations,December 2010**
**SOFTWARE ENGINEERING**
**Electronics And Computer Engineering**

**Time: 3 hours** **Max Marks: 80**

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

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1. (a) Discuss clearly the class-oriented metrics.
   (b) Describe the Object-Oriented metrics proposed by Lorenz and Kidd. [8+8]
2. Explain various incremental process models in detail. [16]
3. (a) Define software. Explain various types of software available.
   (b) Explain various characteristics of software. [8+8]
4. (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]
5. (a) What is a volatile requirement? Give a classification of it.
   (b) Discuss about various requirements traceability policies. [10+6]
6. (a) Discuss about ISO 9000 quality standards.
   (b) Discuss about software quality management tools. [8+8]
7. Elaborate on mapping data flow into a software architecture in detail. [16]
8. (a) Describe the difference between "Known risks"and "Predictable risks".
   (b) Suppose if you are the project manager for a major software company. You have been asked to lead a team that's developing "next generation" word-processing software. Create a risk table for the project. [6+10]

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Code No: 07A60511 **R07** **Set No. 3**

**III B.Tech II Semester Examinations,December 2010**
**SOFTWARE ENGINEERING**
**Electronics And Computer Engineering**

**Time: 3 hours** **Max Marks: 80**

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

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1. Explain about various personal and team process models in detail. [16]
2. (a) Explain how human perception, and skill level will have influence in user interface design.
   (b) State and explain the generic tasks that always performed in user interface design. [8+8]
3. Elaborate on unified process in detail. [16]
4. Explain clearly the Web Engineering project metrics. [16]
5. (a) Explain about Sample-Driven reviews.
   (b) What is statistical SQA? What steps are required to perform it? [8+8]
6. (a) What is an architectural context diagram? Explain with an example.
   (b) What is an archetype? How would you define it. [8+8]
7. (a) What is CK metrics suite? State and explain the six class-based design metrics for Object-Oriented systems.
   (b) Discuss the MOOD metrics suit. [10+6]
8. (a) What are mutable requirements? Differentiate between mutable and consequential requirements.
   (b) Discuss about various emergent requirements. [10+6]

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