

**IV B.Tech I Semester Supplementary Examinations, April/May 2005**  
**SOFTWARE ENGINEERING**  
**( Common to Computer Science & Engineering, Information Technology**  
**and Computer Science & Systems Engineering)**

**Time: 3 hours**

**Max Marks: 80**

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

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1. Explain the software process models.
2. What are indirect measures and why are such measures widely used in software metrics works?
3. What is the goal of requirements analysis phase? Give reasons why the requirements analysis phase is a difficult one.
4. (a) Briefly explain the models used for structures analysis  
(b) Explain about jacks on system development.
5. (a) State and explain the Design Heuristics in Data Flow-Oriented design .  
(b) What is the key element that Data flow-oriented design approach does not address directly?
6. (a) State some guidelines which focus on Data input in User Interface Design.  
(b) What is Software Procedure? Explain with an example.
7. (a) Explain about the automated tools used in software maintenance.  
(b) Discuss the software metrics that can be applied to the qualitative assessment of software quality and the side effects that occur during maintenance phase.
8. (a) Why is completeness more difficult to achieve as abstraction level increases?  
(b) Why interactivity must increase if completeness is to increase?  
(c) Explain the differences between restructuring and forward engineering.

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