

III B.Tech II Semester Supplementary Examinations, April/May 2005
SOFTWARE ENGINEERING-I
(Information Technology)

Time: 3 hours

Max Marks: 70

Answer any FIVE Questions
All Questions carry equal marks

1. (a) Discuss different task regions of a spiral model and define a project entry point axis.
(b) Describe using suitable diagram the component assembly model.
2. (a) What are the phases of RAD model? What are the advantages and drawbacks of this approach?
(b) What are the software metrics and how do they used to manage the software process?
3. (a) What are the factors that affect quality of software? What are the measures of software quality?
(b) Describe COCOMO estimation model for computer software.
4. (a) How is software defined with in the context of a larger system? Where do product engineering and information engineering play a role?
(b) What is structural analysis? How the models of structural analysis enables a software engineer to understand data, function and behaviour?
5. (a) Describe the steps involved in Jackson system development.
(b) What are the basic concepts and principles that are applied to software design activity?
6. (a) What are the principles of data design?
(b) What are the design steps for transaction mapping?
7. (a) What is the strategy for software testing?
(b) Describe basis path testing.
8. Write short notes on the following:
 - (a) Art of debugging
 - (b) Cohesion and coupling
 - (c) Software requirement specification.
