

B.Tech Degree V Semester Special Supplementary Examination June 2012

CS/IT 503 SOFTWARE ENGINEERING (2006 Scheme)

Time : 3 Hours

Maximum Marks : 100

PART A (Answer *ALL* questions)

(8 × 5 = 40)

- I. (a) Explain the waterfall model and its pros and cons.
(b) What is structured analysis? Explain.
(c) Explain any four cohesion types.
(d) Explain any one structured design technique.
(e) Explain key process areas for CMM levels 2 and 3.
(f) Discuss the audit procedure.
(g) What are the five management functions? Briefly explain.
(h) Describe the basic COCOMO.

PART B

(4 × 15 = 60)

- II. Compare and contrast waterfall model, prototyping and spiral model.

OR

- III. Develop a DFD for an office payroll system. Make your own assumptions.

- IV. Explain transaction analysis. Explain the transaction analysis of an ATM system by showing modular break up.

OR

- V. Explain the best software design practices. What are the characteristics for a good user interface?

- VI. Explain five CMM levels in detail, clearly showing key process areas for each phase.

OR

- VII. Explain the various testing strategies in detail.

- VIII. What are the various organization structures? Also explain the drawbacks of matrix organization.

OR

- IX. What are various types of CASE tools? Give one example for each type and explain them in detail.