B. Tech. Degree V Semester Examination November 2012

CS/IT 503 SOFTWARE ENGINEERING
(2006 Scheme)

Time : 3 Hours   Maximum Marks : 100

PART A
(Answer *ALL* questions)

(8 x 5 = 40)

I. (a) Write a short note on decision trees.

(b) What is meant by axiomatic specification?

(c) Define cohesion and coupling.

(d) Differentiate between structured analysis and structured design.

(e) What are the objectives of software testing?

(f) Write a note on SQA planning.

(g) Write a note on COCOMO model.

(h) What are the various activities involved in software project management?

PART B

(4 x 15 = 60)

II. (a) Distinguish between prototyping model and water fall model.   (8)

(b) Write a note on ER diagram.   (7)
OR
III. (a) What is SRS? Explain the format of SRS with a suitable example.   (8)

(b) Write a note on DFD.   (7)

IV. (a) Describe the fundamental concepts of software design.   (8)

(b) Describe the characteristics to be kept in mind while designing a user interface. (7)

OR
V. Describe the terms in detail: (i) Software reuse   (ii) Software maintenance issues.   (15)

VI. Write short notes on: (15)
    (i) Functional and structural testing
    (ii) Test plan and unit testing
    (iii) Integration testing and system testing

OR
VII. Explain the quality standards of ISO 9000 and CMM in detail.   (15)

VIII. Describe the various phases of software project management.   (15)

OR
IX. (a) Explain the typical CASE life cycle.   (7)

(b) What are the various types of CASE tools?   (8)

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