B.Tech. Degree V Semester Special Supplementary Examination August 2015

CS/IT 1503 SOFTWARE ENGINEERING
(2012 Scheme)

Time : 3 Hours   Maximum Marks : 100

PART A
(Answer ALL questions)

(8 × 5 = 40)

I. (a) What is the need of SRS in software projects?

(b) Write short notes on decision trees.

(c) Explain the characteristics of a good software design.

(d) Explain coupling.

(e) What are the objectives of software testing?

(f) Explain integration testing.

(g) What are the important activities in planning phase?

(h) Explain CASE life cycle.

PART B

(4 × 15 = 60)

II. Explain the software life cycle using waterfall, spiral and prototyping models. Discuss   (15)
the pros and cons of each model.

OR

III. What is a data flow diagram? Draw Level 0 and Level 1 DFD for a library   (15)
Management System.

IV. (a) Explain various types of cohesion in detail.   (7)

(b) Explain structured analysis and structured design.   (8)

OR

V   What is software maintenance? Explain the different process models in software   (15)
maintenance. How do you estimate the cost of maintenance?

VI. What is software configuration management? Explain the different activities involved   (15)
in SCM.

OR

VII. (a) Explain functional testing in detail with example.   (8)

(b) Explain system testing in detail.   (7)

VIII. Discuss in detail the COCOMO model of software project cost estimation technique.   (15)

OR

IX. Explain five functions of management with their activities.   (15)

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