B. Tech Degree V Semester Examination November 2010

CS/IT 503 SOFTWARE ENGINEERING
(2006 Scheme)

Time : 3 Hours   Maximum Marks : 100

PART A
(Answer all questions)
(8 x 5 = 40)

I.   (a)   What is a functional and non functional requirement? Give two examples each.
       (b)   Draw E - R diagram for ATM System.
       (c)   Define Black Box testing with example.
       (d)   List out some important software Quality Factors.
       (e)   Explain overview of SQA Planning.
       (f)   Describe any one technique used for project scheduling.
       (g)   Explain the major issues in organizing the software project.
       (h)   Define Structured Analysis with diagram.

PART B
(4 x 15 = 60)

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

OR

III.   (a)   What are the important categories of users of the SRS document?   (8)
       (b)   Explain Prototype model with example.   (7)

IV.   (a)   Explain the different steps in Architectural Design.   (10)
       (b)   Explain software reuse.   (5)

OR

V.   (a)   What do you mean by software maintenance? Explain software engineering process model.   (9)
       (b)   List out five interface design methodologies.   (6)

VI.   Explain the different techniques of functional and structural testing.   (15)

OR

VII.   (a)   Compare the quality standards ISO and CMM.   (8)
       (b)   Give short notes on: unit testing, integration testing and system testing.   (7)

VIII.   Explain the different activities in the planning phase of a software project.   (15)

OR

IX.   What is a CASE tool? How is it classified? Explain any two CASE tools.   (15)

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