B.Tech. Degree V Semester (Supplementary) Examination, July 2009

IT/CS 503 SOFTWARE ENGINEERING
(2006 Scheme)

Time: 3 Hours

Maximum Marks: 100

PART – A

(Answer *ALL* questions)
(All questions carry *EQUAL* marks)

(8 x 5 = 40)

I.   a) What are functional and non-functional requirements? Give two examples each.
      b) How will you choose a life cycle model for a given project. Explain with example.
      c) Explain the design heuristics that can be used to improve the structure of a design.
      d) What do you mean by software reuse.
      e) Explain with example white box testing.
      f) What are the important software quality factors.
      g) Explain the major issues in organizing a software project.
      h) Describe any one technique used for project scheduling.

PART – B

(All questions carry *EQUAL* marks)

(15 x 4 = 60)

II   What is the need of SRS in software projects? Explain the main components of SRS. Give a simple example.

OR

III   What is a Data Flow Diagram. Draw level 0 and level 1 DFD for a library management system.

IV   Explain the different steps in component level design.

OR

V   What do you mean by software maintenance. Explain Software Engineering Process model.

VI   Explain the different techniques for generating test cases in black box testing.

OR

VII   Compare the quality standards ISO and CMM.

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

OR

IX   What is a CASE tool? How is it classified? Explain any two CASE tool.

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