

B. Tech Degree V Semester Examination, November 2008

CS/IT 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 do you understand by the term “life cycle model” of software development? Why is it important to adhere to a life cycle model during development of a large software product?
- (b) Briefly discuss the five desirable characteristics of a good software requirement specification (SRS) document.
- (c) Differentiate between corrective, preventive and perfective maintenance in the context of software maintenance.
- (d) Differentiate between Structured Analysis and Structured Design.
- (e) What do you understand by the term system testing? What are the different types of system testing that are usually performed on software products?
- (f) What are the important activities carried out during the feasibility study phase?
- (g) Discuss the important drawbacks of using LOC as a metric to estimate project size.
- (h) List the important activities software project managers perform during project planning.

PART B

(All questions carry EQUAL marks)

(4 x 15 = 60)

- II. Explain the software life cycle using Waterfall. Spiral and Prototype models. Discuss the pros and cons of each model.
- OR**
- III. Discuss requirement analysis. Using suitable examples, explain the different types of requirements problems that should be identified and resolved during the requirement analysis phase.
- IV. Explain the desirable characteristics of a GOOD user interface
- OR**
- V. Discuss the fundamental software design concepts in detail.
- VI. Discuss Software Quality and the quality factors associated with Software products. Briefly discuss different quality standards applicable to software industry and their relative merits.
- OR**
- VII. Discuss the importance of testing in the development of software products and explain the different levels of testing the product goes through.
- VIII. Discuss in detail the COCOMO model of software project cost estimation technique.
- OR**
- IX. Discuss CASE and tools and CASE environment. What are the different types of CASE tools used in different phases of software development.

