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Name.....

Reg. No.....

**FIFTH SEMESTER B.Tech. (ENGINEERING) DEGREE
EXAMINATION, JUNE 2007**

CS/IT 04 501—SOFTWARE ENGINEERING

(2004 admissions)

Time : Three Hours

Maximum : 100 Marks

Answer all questions.

Part A

1. (a) Define the term repairability with respect to a software system.
- (b) Explain how a software life-cycle model is an abstraction of a software process.
- (c) Define the term interface, implementation and information hiding with respect to modularisation.
- (d) In brief, explain the major uses of software specification.
- (e) What is decision table-based testing ? Give example.
- (f) What are the activities involved in the requirement analysis and specification phase of waterfall model of software production process ?
- (g) List some of the common risk items in software engineering management and techniques for managing them.
- (h) Differentiate between Procedural and Non-procedural languages.

(8 × 5 = 40 marks)

Part B

2. (a) Discuss the relationship between human interface aspects of software and reliability.

Or

- (b) Discuss the principles that may be useful in software development, and show how they are related to the principles of Software Engineering.

3. (a) Explain with example, how the stepwise refinement design is one of the popular and easy to adopt approach.

Or

- (b) A University Registration Office maintains details about courses, instructors and students. Construct an ER diagram for Registrar's office such that enrolment of students in courses and grades awarded to student in each course they are enrolled.

Turn over

4. (a) Discuss in detail the various requirements for verification in a more systematic way.

Or

- (b) Explain how the software quality factors are verified and the various issues involved in it in detail.

5. (a) Give an over-view of software production tools and how to design and implement them.

Or

- (b) Discuss in detail about various user interface management tools and their usage in software development.

(4 × 15 = 60 marks)