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[2098]
M.Tech. II-Semester. Computer Science & Engineering (Full Time)
Examination Sept.2008
Software System Design
2E8902
Paper - (10CPC-02)

Time : 3 Hours   **Maximum Marks : 80**
                                                       Min. Passing Marks : 28

Instructions to Candidates:
Attempt any five questions marks of questions are indicated against each question.

1. a) What do you understand by scrum? Explain all the collaborating framework activities in FDD approach.

    b) What do you understand by Hatley-Pribhai modeling? How can you use UML at system level?

    c) Why requirements elicitation is difficult? Explain the relation between specification and validation.

2. a) What do you understand by swimlans diagram? Explain class-based modeling in detail.

    b) Explain class-responsibility-collaborator modeling with all example. Explain software quality attributes.

    c) Explain deployment level design elements in brief. How is it different with component level design elements.

3. a) Differentiate between unit testing and integration testing. Explain top down integration.

    b) Differentiate between regression testing and smoke testing. Explain alpha and beta testing in brief.

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4. a) What do you understand by version control? Explain configuration audit and status reporting.

   b) Explain ISO 9000 quality standars. What do you understand by risk refinement? Explain with example.

5. a) Explain COCOMO II model in detail. What do you understand by outsourcing.

   b) Why cost analysis is such an important issue in large software projects? Does it include penalties imposed by the user.

6. a) What are the merits and demerits of separate compilation? Explain earned value analysis of a project.

   b) Explain orthogonal array testing. How multimode faults are related to it?

7. a) Differentiate between LOC based and FP based estimation. Explain process-based estimation in detail.

   b) What do you understand by detect amplification? How can you remove it?

8. Write short notes on any two -

   a) CASE tools

   b) Reverse Engineering

   c) Hypermedia testing techniques.