

T 3608

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B.E./B.Tech. DEGREE EXAMINATION, APRIL/MAY 2009.

Fifth Semester

Computer Science and Engineering

CS 1353 — SOFTWARE ENGINEERING

(Common to B.E. (Part-Time) - Fifth Semester - Regulation 2005)

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. Define Software Engineering.
2. Distinguish between verification and validation.
3. Define S/W architecture.
4. What is QFD?
5. What are the problems makes elicitation difficult?
6. What are the types of interface design?
7. Mention any two characteristics of S/W testing.
8. What is the purpose of unit testing?
9. Define Software measure.
10. How will you calculate average reachability?

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PART B — (5 × 16 = 80 marks)

11. (a) Explain in detail the following S/W process models with a neat diagram.
- (i) Incremental process model. (8)
 - (ii) Evolutionary process model. (8)

Or

- (b) How does system engineering differ from software engineering? Also write brief notes on computer based systems and system engineering hierarchy. (16)
12. (a) State and explain the requirements engineering tasks in detail. (16)

Or

- (b) (i) Describe the primary differences between structured analysis and object oriented analysis. (6)
- (ii) Write a detailed note on scenario based modeling. (10)
13. (a) Explain the fundamental software design concepts in detail. (16)

Or

- (b) Explain the following :
- (i) SCM repository. (8)
 - (ii) SCM process. (8)
14. (a) (i) Describe the testing objectives and its principles. (8)
- (ii) Explain the basis path testing in detail. (8)

Or

- (b) (i) What is need for software maintenance and maintenance report? (6)
- (ii) What are the attributes of a “good” test? Explain the test case design. (10)
15. (a) (i) Explain the CASE repository functions in detail. (6)
- (ii) Explain the various method encountered in cost estimation? (10)

Or

- (b) “Software project scheduling does not differ from scheduling of any other multitask engineering projects”: Discuss. (16)