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B.E./B.Tech. DEGREE EXAMINATION, MAY/JUNE 2007.

Eighth Semester

Computer Science and Engineering

CS 045 — SOFTWARE TESTING

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. List the four components the software development process is comprised of.
2. Define the term Coupling.
3. State the result of the Workbench for testing requirements.
4. List the phases of testing where risk matrix can be used.
5. State what Functional testing is not concerned with, and what it is concerned with?
6. What do software testing installation involve?
7. What does the point system for performance measurement during software development make use of?
8. How is performance in software development measured?
9. What is Rapid Application development?
10. State why system documentation is included as a separate test.

PART B — (5 × 16 = 80 marks)

11. (a) (i) Tabulate and discuss the life cycle chart showing the verification activities for each phase. (8)
- (ii) Write down the advantages and disadvantages of Functional testing and Structural testing. (8)

Or

- (b) What is test strategy? Explain the methods for developing test strategy. (2 + 14)

12. (a) Discuss any eight requirements phase test factors. (16)

Or

- (b) (i) List and discuss the four tasks that need to be completed during the design phase testing. (10)
- (ii) What are the common programming phase deliverables that are input for testing? (6)

13. (a) (i) "Installation phase is the process of getting a new system operational." List and discuss the areas the installation process may involve. (8)
- (ii) Discuss the more common deliverables produced during the installation phase. (8)

Or

- (b) (i) Define the concerns that the software users face in making the acceptance decision. (8)
- (ii) What are the contents of a use case? State commonly used use cases and their use. (8)

14. (a) (i) What is Rolling Baseline? How is it overcome? Discuss. (8)
- (ii) Discuss how the point system can be used as a test method. (8)

Or

- (b) What are the contents of the Specifications and Evaluation section of a test document? Discuss. (16)

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(8)
15. (a) Once a decision has been made to formally assess the effectiveness of testing, an assessment process is needed". Tabulate the seven-task approach for assessing the effectiveness of system testing. (16)

Or

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(8)
- (b) (i) State and discuss the four concerns testers should take in to consideration for RAD testing. (8)
- (ii) Briefly discuss the different structural system testing techniques. (8)
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14)
- 16)
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