B.E./B.Tech. DEGREE EXAMINATION, MAY/JUNE 2006.

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)

List out the people who are associated with testing.

What are test factors? Name any five of them.

List out the deliverables of requirement phase, which are considered for testing.

4. What are the test tools recommended for the design phase testing?

5. What is fail–safe method?

6. Identify the elements to be tested in maintenance phase.

7. How do you categorize the parametric models used in cost estimation?

8. What is the function of a moderator in inspecting test plans?

9. Which method is used for testing prototypes? Why?

10. How do structural testing methods differ from functional testing methods?

PART B — (5 × 16 = 80 marks)

11. (i) List out any 8 common testing tools and discuss their use in testing. (8)

    (ii) Differentiate dynamic and static testing methods. (2)

    (iii) Discuss any two types of reports produced to visualize the test results. (6)

12. (a) (i) Explain the verification activities in traditional so[ftware]
        development life cycle.

    (ii) Distinguish between verification and validation.

                              Or

    (b) (i) Using testing strategy and tactics, state how a testing metho[d]
        can be worked out. Explain.

    (ii) State the various testing methodologies.

13. (a) Discuss in detail about how to use the volume–test test tool.

                              Or

    (b) Explain the test file process of test data test tool.

14. (a) Explain in detail the steps involved in testing the change installa[tion]
        process.

                              Or

    (b) What are the parameters to be monitored for the system acceptan[ce]
        Explain how it could be done.

15. (a) Explain the inspection procedure for the test plan execution.

                              Or

    (b) Discuss how to test the progress of the software system duri[ng]
        maintenance?

                    _____