FACULTY OF INFORMATICS

B.E. 3/4 (IT) II – Semester (New) (Main) Examination, May 2013

Subject : Software Testing (Elective – I)

Time : 3 hours   **Max. Marks : 75**

Note : Answer all questions from Part-A. Answer any FIVE questions from Part-B.

PART – A (25 Marks)

1. What is testing? What are the objectives of testing?   2

2. Define : a) Test plan   b) test script   c) test suite   3

3. What are the different types of testing? Differentiate between them.   3

4. What is debugging? What is the difference between an error and a fault?   3

5. What is Integration testing? What is the importance of integration testing?   2

6. What is performance testing? When is it conducted?   2

7. What type of applications can be tested by Jmeter? List some important features of Jmeter.   3

8. What are the source code testing utilities in UNIX?   2

9. What are the different types of testing metrics suitable for controlling the testing process?   2

10. Differentiate between positive and negative testing for black box testing.   3

PART – B (50 Marks)

11. a) What are the principles of software testing? What are the guidelines for designing a good test plan?   5

    b) Differentiate between verification and validation in software testing.   5

12. What is White Box testing? Explain static testing? Explain unit / code functional testing strategy for structural testing.   10

13. a) What is system testing? Why it is done?   3

    b) Explain the unit testing of a set of classes in object oriented applications.   7

14. Explain the architecture, features and the use of silk test.   10

15. a) What is black box testing? What are the different types of black box testing?   3

    b) Write short notes on efficient test suite management.   7

16. Explain the need and importance of progress metrics in software testing. Explain some important progress metrics used in software industry for testing the software products.   10

17. Explain :
    a) Uses of load runner, win runner   5+5
    b) State based or graph based testing strategy

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