



Code No. : 5263/M

FACULTY OF ENGINEERING
B.E. 4/4 (CSE) II Semester (Main) Examination, May/June 2012
SOFTWARE QUALITY AND TESTING (Elective – II)

Time : 3 Hours]

[Max. Marks : 75

Note : Answer *all* questions of Part **A**. Answer *five* questions from Part **B**.

PART – A

(25 Marks)

1. Define software quality assurance and describe the components of SQA. 2
2. Briefly explain about software configuration management. 3
3. What are the steps involved for software quality metrics methodology ? 2
4. Define software quality indicators. 3
5. Distinguish verification and validation. 2
6. The quality of software development process is improved through SDLC testing. Justify by stating relevant economics. 3
7. Distinguish gray box testing and black box testing. 2
8. Discuss about JAD. 3
9. Write short notes on testing security. 2
10. Discuss about on evaluation of test effectiveness. 3

PART – B

(50 Marks)

11. a) Explain clearly the software quality assurance plan. 5
b) Discuss about CMM and 6 sigma. 5
12. What is the need of software quality metrics ? Explain in-process quality metrics. 10
13. a) Write a brief notes on testing policy with one example. 5
b) Discuss about the eight considerations in developing testing methodologies. 5



14. a) How is automated testing is better than manual testing ? Explain taxonomy of testing tools. 7
- b) Briefly explain the methodology to evaluate automated testing tools. 3
15. a) Explain eleven steps of testing process. 5
- b) Discuss Winrunner testing tool. 5
16. Explain the workbench used to test a web application. 10
17. Write short notes on the following :
- a) Testing tactics checklist 3
- b) CRUD 3
- c) Cause – Effect Graphing. 4