

STELLA MARIS COLLEGE (AUTONOMOUS) CHENNAI 600 086
(For candidates admitted during the academic year 2007–08)

SUBJECT CODE: CS/PC/ST34

M.Sc. DEGREE EXAMINATION, NOVEMBER 2008
INFORMATION TECHNOLOGY
THIRD SEMESTER

COURSE : MAJOR CORE
PAPER : SOFTWARE TESTING
TIME : 3 HOURS

MAX. MARKS: 100

SECTION – A

(10X2=20)

ANSWER ALL THE FOLLOWING QUESTIONS:

1. What is software Engineering?
2. Define beta testing.
3. What is verification and validation?
4. Write about white box testing.
5. What are the classes of product metrics?
6. Define failure cost.
7. Name any two performance tool.
8. What is structural testing?
9. What are test cases?
10. Define reliability.

SECTION – B

(6X5=30)

ANSWER ANY SIX OF THE FOLLOWING QUESTIONS:

11. Write about software quality triangle.
12. Discuss about Evolutionary Development model.
13. Explain about defect amplification and removal.
14. Explain about function based metrics.
15. Discuss about different levels of testing.
16. List the disadvantages of manual testing.
17. What is the need of for automated testing?
18. Explain the techniques used for selecting the test cases.

SECTION – C

(5X10=50)

ANSWER ANY FIVE OF THE FOLLOWING QUESTIONS:

19. List the reason for using software engineering in the software development process.
20. Explain the phases of software development life cycle.
21. Explain about system testing.
22. Define the following
 - a) Alpha testing
 - b) Beta testing
 - c) Black box testing
 - d) Smoke testing
 - d) Regression testing
23. Discuss in brief the categories of testing tools.
24. List the criteria for selecting a testing tool.
25. Explain spiral model for software development.
