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Reg. No. :

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Question Paper Code : 75602

5 Year M.Sc. DEGREE EXAMINATION, NOVEMBER/DECEMBER 2013.

Seventh Semester

Software Engineering

XSE 471/10677 SW 701— SOFTWARE TESTING

(Regulation 2003/2010)

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. Define kiviati chart.
2. What is meant by the test factors?
3. What is use of functional and structural and testing methods?
4. Write the types of project.
5. What is the technique of security testing?
6. When will use the manual support testing?
7. What is heuristic model?
8. What categories of data collected during testing?
9. Write the tasks of client/server software.
10. What is meant by data integrity process?

PART B — (5 × 16 = 80 marks)

11. (a) (i) Explain the multiple roles of testing in detail with the diagram of software development process. (8)
- (ii) Write in detail about the various risk factors in software testing. (8)

Or

- (b) (i) Write about process problems and defect rates in testing. (8)
- (ii) Explain the strategies and methodologies of testing in detail. (8)

12. (a) (i) Explain the methods of verification and validation with examples. (8)
(ii) Describe the testing techniques and tool selection process with neat diagrams. (8)

Or

- (b) Explain the considerations of developing testing methodologies with diagrams. (16)
13. (a) (i) Describe the software testing tools and cost techniques in detail. (8)
(ii) Explain the functional testing techniques with examples. (8)

Or

- (b) Write a note on the following:
(i) Test technique matrix (8)
(ii) Structural testing analysis. (8)
14. (a) (i) Explain the concept of testing life cycle with the diagram of relationship between "do" and "check" procedures. (10)
(ii) Write about program phase and design phase testing in detail. (6)

Or

- (b) (i) Explain the concept of test execution and record results in file with an example. (8)
(ii) Explain the software installation in testing with the workbench diagram to test software installation. (8)
15. (a) (i) Write the maturity levels of software process in detail with neat a diagram. (6)
(ii) Explain testing a data warehouse in detail with tasks of "do" procedures. (10)

Or

- (b) Write a note on the following:
(i) Testing web based systems (8)
(ii) Testing security. (8)