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Question Paper Code : Z 9383

5 Year M.Sc. DEGREE EXAMINATION, NOVEMBER/DECEMBER 2009.

Seventh Semester

Software Engineering

XSE 471 — SOFTWARE TESTING

(Regulation 2003)

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. List out the technological developments that are causing organizations to revise their approach to testing.
2. Define test factor. List out a few test factors.
3. What are the advantages and disadvantages of functional and structural testing?
4. How are testing tools selected?
5. What is output domain coverage?
6. State any two functional testing techniques.
7. What are the categories of data that will be collected during testing?
8. Mention the factors involved in evaluating the effectiveness of software testing.
9. List out the area of concern in multiplatform testing.
10. What are the objectives of Web based system?

PART B — (5 × 16 = 80 marks)

11. (a) (i) Explain the factors involved in assessing the individual testing competencies. Develop a workbench to lead through an assessment of individual testing competencies. (8)
- (ii) Explain the factors to be considered in assessing the quality of testing process capabilities and skills of testers. (8)

Or

- (b) Discuss the steps in developing a test strategy. Create a sample test strategy for any example application system. (16)
12. (a) Explain the workbench concept. Explain the eight considerations to convert the test strategy into test tactics or test plans. (16)

Or

- (b) (i) Describe the structured approach to software testing. (8)
- (ii) Explain the steps to develop test strategy. Develop an test strategy for a payroll system for a corporation that must transmit tax information to the appropriate government agency after January 1, 2000. (8)
13. (a) Describe the functional system testing techniques. Explain how and when to use these testing. Give some specific examples of these testing.
- (b) (i) Generate test matrix for banking transaction system using automatic teller machine. (8)
- (ii) Discuss the process for using a manager to manage the use of IT tools. (8)
14. (a) (i) Describe the objective, concern and workbench for program phase testing. (8)
- (ii) Discuss the objective, concerns and workbench for testing requirements. (8)

Or

- (b) (i) What are the three major concerns testers have on entering the test execution step? Illustrate the workbench for executing tests and recording results. (8)
- (ii) Illustrate and explain the workbench to test the installation of new software. (8)

15. (a) Explain the objectives, test factors and testing techniques associated with testing RAD. (16)

Or

- (b) Identify the strategic risk factors existing in web based system and describe the testing procedures used to test the extend to which the risk factors are handled in web based system. (16)

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