Reg. No. | | | | | | | | | | | | |

Question Paper Code : 45932

5 Year M.Sc. DEGREE EXAMINATION, NOVEMBER/DECEMBER 2014.

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. Mention two software problems that commonly cause bad design decisions.

2. Suggest means to identify the business risks associated with a software system under development. How can the risk be mapped to a SDLC phase?

3. What forms part of a programmers workbench?

4. Along with the reason, suggest the functional system testing technique to use when there is a high risk that new changes may affect unchanged areas of the application system.

5. Mention the tests that are mandatory for online applications and state your reason.

6. When is recovery testing used?

7. What are the possible difficulties faced by the test team in the installation phase?

8. How does testing the audit trail function help?

9. What are the tasks in the workbench for testing a data warehouse?

10. What are the major challenges when testing in a multiplatform environment?

PART B — (5 × 16 = 80 marks)

11. (a) What is the importance of following a well-defined process for an organization to become a world class software testing organization? Create a model to help a company define their strengths and deficiencies, their staff competencies and deficiencies and areas of user satisfaction.

Or

(b) What is cost-effectiveness of testing? Show the role of software testing in the different phases of the SDLC and the problems associated with software testing in an organization.

12. (a) Elaborate on the six general software testing guidelines that can significantly improve software testing and are the primary reason to build a software testing process.

Or

(b) List the various testing tools along with their functions and the skill level to which they are most appropriate.

13. (a) Write a program to check if a number is prime, Perform structural testing on the code and show the analysis.

Or

(b) Elaborate on the steps involved in developing an effective test plan.

14. (a) Compare and contrast the reporting of interim and final test reports.

Or

(b) Elaborate on how changed software versions can be tested.

15. (a) With an online shopping site as a case study, show how web based systems can be tested.

Or

(b) Describe how spiral testing aids RAD systems.

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