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

Question Paper Code : 21745

B.E./B.Tech. DEGREE EXAMINATION, NOVEMBER/DECEMBER 2015.

Seventh Semester

Computer Science and Engineering

IT 2032/IT 702/10177 ITE 24/10144 CSE 15 — SOFTWARE TESTING

(Common to Information Technology)

(Regulations 2008/2010)

(Common to PTIT 2032/10144 CSE 15 – Software Testing for B.E. (Part-Time) Sixth Semester Computer Science and Engineering – Regulations 2009/2010)

Time : Three hours Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. What would be the information, a test case will contain?
2. Define the following terms: Errors, Fault, and Failure.
3. Write the samples of cause and effect notations.
4. How the black box testing strategy differs from white box?
5. Write the levels of testing.
6. Why should we use Ad-hoc testing?
7. What role do users/clients play in the development of test plan for a project?
8. Define Test log.
9. Write the need of testing maturity model.
10. Write the types of reviews.

PART B — (5 × 16 = 80 marks)

11. (a) Write the technological developments that causes organizations to revise their approach to testing; also write the criteria and methods involved while establishing a testing policy. (16)

Or

(b) Explain the four steps involved in developing a test strategy, and with an example create a sample test strategy. (16)

12. (a) Compare functional and structural testing with its advantages and disadvantages. (16)

Or

(b) (i) Draw the flowchart for testing technique/tool selection process. (8)

(ii) Explain the following testing concepts :

(1) Dynamic versus Static testing (4)

(2) Manual versus Automatic testing. (4)

13. (a) Write the importance of security testing. What are the consequences of security breaches? Also write the various areas which has to be focused on during security testing. (16)

Or

(b) Explain the phases involved in unit test planning and how will you design the unit test. (16)

14. (a) Write the various personal, managerial and technical skills needed by a Test specialist. (16)

Or

(b) Write the essential high level items that are included during test planning; also write the hierarchy of test plans. (16)

15. (a) Explain about SCM and its activities. (16)

Or

(b) Explain the five steps in software quality metrics methodology adopted from IEEE standard. (16)

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