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**Question Paper Code : 31499**

B.E./B.Tech. DEGREE EXAMINATION, NOVEMBER/DECEMBER 2013.

Seventh Semester

Computer Science and Engineering

IT 2032/IT 702/10177 ITE 24 — SOFTWARE TESTING

(Common to Information Technology)

(Regulation 2008/2010)

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. What is the role of process in software quality?
2. What do you mean by software defect? Write one example.
3. Define CFG (Control Flow Graph) with its merits.
4. Write the role of the path static test.
5. Mention any two needs for levels of testing.
6. List out the types of system testing.
7. List out any two organizational issues in testing.
8. Write the business impacts of globalization.
9. Define review and its type.
10. What is the scope of automation?

PART B — (5 × 16 = 80 marks)

11. (a) (i) Differentiate between verification and validation. Explain them with an example. (6)
- (ii) Write note on the following. (2 + 4 + 4)
- (1) Defect classes
  - (2) Principles of Software Testing
  - (3) Defect Test design.

Or

- (b) Explain the role of Tester in a software development in detail with an example. Also explain the different phases in tester's mental life. (16)
12. (a) (i) Explain positive and negative testing in detail with an example. (8)
- (ii) Compare and contrast between static testing and structural testing with an example. (8)

Or

- (b) Write note on the following with an example. (4 × 4)
- (i) Smarter test
  - (ii) Decision tables
  - (iii) Code complexity testing
  - (iv) Desk checking.
13. (a) (i) Write the needs for levels of testing. (4)
- (ii) Explain the levels of testing in detail. (12)

Or

- (b) (i) Compare and contrast between regression testing and ad-hoc testing. (6)
- (ii) Explain how do you perform the unit test and record the result in detail with a suitable illustration. (10)

14. (a) (i) Explain the various issues of people and organization in testing. (6)  
(ii) What are the three groups in Test planning? Explain each group and its functions in detail. (10)

Or

- (b) (i) What are the skills needed by test specialist? Explain. (6)  
(ii) Explain the organization structure of testing team and present the testing services. (10)
15. (a) Explain the types of reviews and how to develop a review program in detail with suitable illustration. (16)

Or

- (b) (i) Discuss the design and architecture for automation in detail. (10)  
(ii) Explain the components of review plans and control issues. (6)
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