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

Question Paper Code : 31163

B.E./B.Tech. DEGREE EXAMINATION, MAY/JUNE 2013.

Seventh Semester

11.6.13 - A

Computer Science and Engineering

080230049 — SOFTWARE TESTING

(Regulation 2008)

Time : Three hours Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. State the goals of testing.
2. Write a test case for Web Login.
3. State the limitations of static data flow diagram.
4. Write the pros and cons of boundary value testing.
5. What do you mean by big bang integration?
6. What are the test completion criteria for system testing and module testing?
7. What is GUI testing?
8. Why testing object oriented programs are different from the others?
9. Define silk test.
10. What is the use of test director software?

PART B — (5 × 16 = 80 marks)

11. (a) (i) Why is it impossible for a tester to find all the bugs in a system? Why might it not be necessary for a program to be completely free of defects before it is delivered to its customers?

(ii) State and explain various dichotomies in software testing.

Or

(b) (i) What are control and sequence bugs? Write how they can be caught?

(ii) Explain V- Model and levels of testing in detail.

12. (a) (i) Define the equivalence classes and specify test cases for strong normal equivalence tests for the any problem of your own.

(ii) Discuss various flow graph elements with their notations.

Or

(b) (i) What is meant by program's control flow? How is it useful for path testing?

(ii) What is meant by statement testing and branch testing? Explain with an example.

13. (a) (i) State and explain the considerations for usability testing with illustrative examples?

(ii) What is meant by Co-incidental correctness? Illustrate with an example.

Or

(b) (i) Illustrate the concept of extreme testing with a small java application? Employ Junit for the example?

(ii) Explain the components of good test plans.

14. (a) (i) Explain the cluster integration approach of object oriented integration testing. State the problems related to Inheritance.

(ii) Explain Class as the testable unit with suitable illustrations.

Or

(b) (i) State and explain the issues that are related for a successful object oriented software testing strategy.

(ii) Write about the system testing process and test case design for a object oriented software.

15. (a) (i) How does Win Runner identify GUI Objects? Explain.

(ii) How do you analyze results and report the defects using load runner testing tool?

Or

(b) (i) Explain how automated functional testing is performed with Jmeter illustrate with an example.

(ii) Explain the different approaches to debug the software applications.

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