

(Following Paper ID and Roll No. to be filled in your Answer Book)

PAPER ID : 2524

Roll No.

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B.Tech.

(SEM. VI) THEORY EXAMINATION 2010-11

SOFTWARE TESTING

Time : 3 Hours

Total Marks : 100

Note :—Answer all questions as per directions given thereof.

All questions carry equal marks. Be precise in your answer. No second answer booklet will be provided.

1. Attempt any two of the followings :— (10×2=20)
 - (A) Differentiate among Faults, Errors and Failures. Why does software testing need extensive planning ? Discuss the testing objectives and indicate the steps involved in test case design.
 - (B) What is meant by test case design ? Describe the various types of testing with a suitable example.
 - (C) Differentiate between Verification and Validation. Illustrate the Software Quality and Reliability in detail.
2. Attempt any two of the followings :— (10×2=20)
 - (A) Differentiate between White box and Black box testing. Discuss the Code coverage testing and Code complexity testing in detail.
 - (B) What is Equivalence Partitioning ? Describe the Boundary Value Analysis in detail.
 - (C) Write short notes on the following :
 - (i) Requirement based testing
 - (ii) Model based testing.

3. Attempt any **two** of the followings : (10×2=20)
- (A) What is System integration ? Differentiate between Top down and Bottom up integration with a suitable example.
 - (B) Comment on Functional versus Non-functional testing. Illustrate Deployment testing and Beta testing in detail.
 - (C) What is Acceptance testing ? Describe Acceptance criteria and test cases selection/execution in context of Acceptance testing.
4. Attempt any **two** of the followings :— (10×2=20)
- (A) Define the term Regression testing and its significance. Discuss the various tools for Regression testing.
 - (B) Explain Pair testing, Exploratory testing and Iterative testing in context of Ad hoc testing.
 - (C) Write short notes on the followings :—
 - (i) Selection of Regression tests
 - (ii) Dynamic Slicing.
5. Attempt any **two** of the followings :— (10×2=20)
- (A) Describe Test Planning, Management Execution and Reporting along with their significance in Software Testing.
 - (B) Illustrate the Generic requirements for test tool framework in detail.
 - (C) Write short notes on the following :—
 - (i) Testing in Object-oriented system
 - (ii) Software test Automation.