

Printed Pages—2

EIT062

(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 Béta 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 Regréssion 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.