

Roll No.

8806

Printed Pages : 2

BT-8 / M-17
SOFTWARE VERIFICATION,
VALIDATION AND TESTING
Paper-CSE-450

Time allowed : 3 hours]

[Maximum marks : 75

Note : Attempt five questions in all, selecting at least one question from each unit. All questions carry equal marks.

Unit-I

1. (a) What are the evolution phases of software testing ?
Explain in detail. 8
- (b) Compare and contrast terms error, fault and failure with suitable examples. 7
2. Generate a set of test cases for testing the program that reads in three angles of the triangle. If the angles are less than 90, it is an acute angled triangle. If one angle is greater than 90, it is an obtuse angled triangle. If one angle is equal to 90, it is right-angled triangle. Design the test case using equivalence class testing techniques. 15

Unit-II

3. Define various dynamic data flow testing methods with suitable examples. 15
4. (a) Differentiate between static and dynamic slice based testing. 5
- (b) Explain Path testing with examples. 10

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Unit-III

5. (a) Explain the integration testing procedures in detail. 5
- (b) Differentiate between load and stress testing. 10
6. (a) What are the different techniques for testing object-oriented class ? 8
- (b) Discuss the validation methods for inheritance testing. 7

Unit-IV

7. (a) Write down the steps in selection of a testing tool. 5
- (b) Discuss any five software testing tools. 10
8. (a) Differentiate between testing techniques and testing tools. 7
- (b) What are the different categories of testing tools ? Explain. 8

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