### Download all Notes and papers from StudentSuvidha.com

# 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 goals of the software testing? Explain the software testing life cycle in detail.
  - (b) Explain the equivalence class method with example.
- 2. Develop a set of test cases for testing the program that determine the roots of a quadratic equation which read in three integer' values range from [0,100] using Cause effect graph.

#### Unit-II

 What is the need of test case prioritization? Explain different types of prioritization techniques.

[P.T.O.

15

Download all Notes and papers from StudentSuvidha.com

## Download all Notes and papers from StudentSuvidha.com

4.	(a)	What is difference between primary and secondary		
		mutants?	5	
	(b)	Explain each data anomalies with examples.	10	
Unit-III				
5.	(a)	Explain the testing procedure for unit testing.	7	
	(b) Explain call graph based integration with suitable			
		example.	8	
6.	(a)	What are the different issues in testing the object		
		oriented software?	8	
	(b)	Discuss the validation methods for class testing.	7	
Unit-IV				
7.	(a)	Differentiate between Static and Dynamic tools.	7	
	(b)	Discuss the criterion for the selection of test	ing	
		tools.	8	
8.	(a)	What is the need of automation? Discuss.	7	
	(b)	Explain the characteristics of modern tools.	8	