

Roll No. ....

Total Pages : 2

**BT-8/D-19**

**38155**

**SOFTWARE TESTING**

**Paper-CSE-412N**

Time : Three Hours]

[Maximum Marks : 75

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

**UNIT-I**

1. (a) What are the principles of software testing? Explain. 7½  
(b) Comment on the role of testing in SDLC. Provide suitable examples wherever required. 7½
2. (a) What do you mean by test oracle? How it is used in test case design? 7½  
(b) What are the various limitations of testing? Explain in detail. 7½

**UNIT-II**

3. (a) What is cyclomatic complexity? Discuss various ways to find it using suitable examples. 7½  
(b) How the boundary value testing is done? Explain using suitable examples. 7½

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4. (a) Explain various axioms of data flow testing. 7½  
(b) Can a decision table be helpful in testing? If yes, describe the technique for this type of testing using suitable examples. 7½

**UNIT-III**

5. (a) Differentiate between various levels of testing. 7½  
(b) What is integration testing? Explain its types and merits and demerits of each. 7½
6. (a) Describe the various types of test case prioritization in detail. 7½  
(b) What are the objectives of regression testing? Explain its various types in brief. 7½

**UNIT-IV**

7. (a) What is a preferable design of software so that it becomes testable? Explain giving a brief sample design that is testable. 7½  
(b) How the testing is different in object-oriented software as compare to traditional software? Explain using appropriate examples. 7½
8. Write short notes on:  
(a) Web Testing  
(b) Security Testing  
(c) Database Testing. 15

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