

Roll No. ....

Total Pages : 02

BT-8/M-19

38006

SOFTWARE VERIFICATION, VALIDATION  
AND TESTING  
CSE-450E

Time : Three Hours]

[Maximum Marks : 75

Note : Attempt *Five* questions in all, selecting at least *one* question from each Unit.

Unit I

1. (a) Describe the software testing principles. How does testing help in producing quality software ?  $7\frac{1}{2}$   
(b) Write the procedure to make test cases with examples.  $7\frac{1}{2}$
2. What is White box testing ? Discuss various pros and cons of White box testing. Discuss various WBT techniques with example. 15

Unit II

3. (a) What is Graph Metric ? List various graph metrics used in testing.  $7\frac{1}{2}$   
(b) Discuss various phases in risk analysis.  $7\frac{1}{2}$

(2-35/7) L-38006

P.T.O.

4. Explain the following testing : 2×7½=15  
(i) Data Flow (ii) Slide Based.

### Unit III

5. (a) Discuss different levels of testing. 7½  
(b) What is debugging ? Write different steps involved in debugging. 7½
6. (a) Explain the following terms with example :  
(i) Unit Testing (ii) GUI Testing. 7½  
(b) What is Object Oriented Integration Testing ? How is it different from Object oriented system testing ? 7½

### Unit IV

7. Differentiate static and dynamic testing tools with example.  
List various dynamic tool used in testing. 15
8. Write short notes on the following : 2×7½=15  
(a) Agile Testing (b) Ad-hoc Testing.