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

- (a) Describe the software testing principles. How does testing help in producing quality software? 7½
 - (b) Write the procedure to make test cases with examples. 71/2
- What is White box testing ? Discuss various pros and cons of White box testing. Discuss various WBT techniques with example.

Unit II

3. (a) What is Graph Metric ? List various graph metrics used in testing. 7½
(b) Discuss various phases in risk analysis. 7½

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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
- Differentiate static and dynamic testing tools with example.
 List various dynamic tool used in testing.
 15
- 8. Write short notes on the following : $2 \times 7\frac{1}{2} = 15$
 - (a) Agile Testing (b) Ad-hoc Testing.