Roll No. ....

Total Pages : 03

BT-8/M-14   **8806**

SOFTWARE VERIFICATION, VALIDATION &
TESTING

CSE-450

Time : Three 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 do you understand from Software
Testing ? Discuss it and also explain its
limitations.

   (b) Define Error, Fault and Failure.

2. (a) Give the names of various types of black
box testing and also discuss boundary value
analysis in detail.

   (b) What is the goal of testing ? Discuss it and
also explain equivalence class testing in
detail.

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Unit II

3. (a) What is Cyclomatic complexity ? What are
its uses in different phases of software
development ? Discuss it.

   (b) What do you know about Mutation Testing ?
Discuss it.

4. (a) Why is Regression Testing necessary for
sophisticated projects ? Discuss its with
suitable examples.

   (b) What do you know about prioritization
Guidelines ? Discuss it.

Unit III

5. (a) Discuss the various categories of debugging.

   (b) Explain the various levels of Testing.

6. (a) What are the various issues in object oriented
testing ? Discuss them.

   (b) What do you understand from GUI ? Discuss
it and also explain GUI testing.

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Unit IV

7. (a) Discuss the different types of testing tools.

   (b) Explain the difference between Static and Dynamic testing tools with suitable examples.

8. What do you understand from Modern Tools ? Explain them in detail and also discuss their characteristics.