Roll No. ....

Total Pages : 02

BT-8/M-18   38006

SOFTWARE VERIFICATION, VALIDATION
AND 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 is the difference between Verification and Validation ?

    (b) What is the difference between a Test Plan and a Use Case ?

    (c) What is the reason that Software has Bugs ?

    3×5=15

2. (a) List the generic procedure which is used for generation of tests, using cause effect graphing. 8

    (b) Discuss the role of discrete mathematics in software testing.   7

Unit II

3. Explain Gorilla Testing, Stress testing and graph matric with example.   15

4. Explain various black box testing techniques in detail.   15

Unit III

5. (a) Discuss class test, cyclomatic complexity and domain testing with example.   9

    (b) Differentiate Cohesion and coupling with example.   6

6. (a) How many types of graphs are used in software testing ? Give suitable example.   7

    (b) Discuss various schemes to reduce number of test cases.   8

Unit IV

7. (a) Discuss various automated testing tools used in software testing.   7

    (b) Discuss Win Runner and Load Runner in detail.   8

8. Discuss various dynamic tools used in software testing in detail.   15