

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 ? 3x5=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

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Unit II

- 3. Explain Gorilla Testing, Stress testing and graph matrix 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

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