

IV B.Tech I Semester Regular Examinations, November/December 2005
SOFTWARE TESTING METHODOLOGY
(Information Technology)

Time: 3 hours**Max Marks: 80**

Answer any FIVE Questions
All Questions carry equal marks

1. (a) Give differences between Functional testing and Structural testing .
(b) Specify on which factors the importance of bugs depends? And give the metric for it.
(c) Briefly explain various consequences of bugs.
(d) What are the remedies for test bugs? [4+4+4+4]
2. Categorize different kinds of loops and explain [16]
3. Explain the Transaction Flow testing with an example? [16]
4. Classify what can go wrong with boundaries, then define a test strategy for each case in domain testing? [16]
5. Write the steps involved in Node Reduction Procedure. Illustrate all the steps with help of neat labeled diagrams [16]
6. (a) Write Boolean Algebra rules. Illustrate the rules with path expressions.
(b) Use a Karnaugh map to minimize
$$F = AB'C'D' + A'B'C'D' + ABC'D + A'BCD + ABD + B'CD' + A'BC'D$$
 [8+8]
7. Explain State graphs with implementation . [16]
8. What are graph matrices and their applications. [16]
