

Code No: 45090

R07

Set No - 4

III B.Tech I Semester Regular Examinations, Nov/Dec 2009

Software Testing Methodologies

Common to Information Technology, Computer Science And Engineering

Time: 3 hours

Max Marks: 80

Answer any FIVE Questions

All Questions carry equal marks

1. Write the steps involved in Node Reduction Procedure. Illustrate all the steps with help of neat labeled diagrams. [16]
2. (a) Explain how concatenated loops can be tested?
(b) What are the 3 cases for single loop testing? [10+6]
3. (a) What are the Restrictions in domain testing?
(b) What are the possible domain bugs for a one-dimensional closed boundary? [8+8]
4. (a) Define relation and explain its different properties of relations.
(b) Explain about partial ordering relations. [8+8]
5. (a) Define du path and definition-clear path segment.
(b) Why All-du-Paths (ADUP) is the strongest data-flow testing strategy? [6+10]
6. (a) Define Software bug.
(b) Define Pesticide Paradox and Complexity barrier.
(c) Explain different phases of tester's mental life. [2+6+8]
7. (a) Show the representation of Minterm and Maxterm for three variables(D+M)
(b) Minimize the given expression using four variable k-map.
 $F(A,B,C,D) = \sum m(0,1,3,4,7,8,15)$. [8+8]
8. Explain State graphs with implementation. [16]
