

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. (a) What are the advantages of matrix representations?
(b) Write about loops in matrix representation. [8+8]
2. (a) Explain the construction of control flow graph.
(b) How does a nexted loop can be tested? [8+8]
3. Define structured code. Explain lower path count Arithmetic with an example.[16]
4. (a) Explain different Ugly domains.
(b) How programmers and testers treat Ugly Domains. [8+8]
5. Draw a hard disk recovery a state graph with a state table. [16]
6. What are the 6 classes of bugs in the taxonomy of bugs. [16]
7. (a) Explain the procedure to construct a Data Flow Graph.
(b) Construct the Data flow graph for the following problem.
 - i. Given L, t, and d, solve for Z .
 - ii. $\cos(C) = \cos(L) \sin(t)$
 - iii. $\tan(M) = \cot(L) \cos(t)$
 - iv. $\tan(Z+F) = -\sin(L) \tan(t)$
 - v. $\tan (F) = \cos(M) \tan(M+d)$. [8+8]
8. What is decision table and how does it is useful in testing. Explain it with help of an example. [16]
