R07　　　　　**Set No. 2**

III B.Tech I Semester Examinations,December 2011
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) Mention design guidelines for building finite state machines into your code.

　 (b) Explain with example how to convert a specification into a state graph . And discuss how contradictions can come about.　　　　　　　　[8+8]

3. Differentiate Nice Domains and Ugly domains.　　　　　　　　　　[16]

4. (a) Explain process block, junction, 100% path coverage and Predicate.

　 (b) How do you ensure 100% node coverage if every process link is covered at least once?　　　　　　　　　　　　　　　　　　　　　　　　[8+8]

5. Write the Boolean algebra rules.　　　　　　　　　　　　　　　　[16]

6. (a) Explain the steps for Reduction procedure.

　 (b) Explain about path sums, distributive laws and absorption rules.　　[8+8]

7. (a) What are the different data object states in data-flow graphs.

　 (b) List nine possible two-letter combinations of the object states of data flow anomalies. Classify them as buggy, suppicioos and ok.　　　　　　[8+8]

8. (a) What are the Phases in a Tester's Attitudinal Progression?

　 (b) Differentiate function Versus Structural Testing.　　　　　　　[10+6]

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