Code :R5320506 **R5**

III B.Tech II Semester(R05) Supplementary Examinations, April/May 2011
SOFTWARE TESTING METHODOLOGIES
(Computer Science & Engineering, Information Technology)

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

Answer any FIVE questions
All questions carry equal marks

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1. (a) Distinguish between designer and the tester.
   (b) Discuss the influence of effective modularity on testing.
2. (a) State and explain various kinds of predicate blindness with suitable examples.
   (b) What are link counters? Discuss their use in path testing.
3. (a) State and explain various transaction flow junctions and mergers.
   (b) Explain the terms Inspections, Reviews and Walkthroughs.
4. (a) Discuss about interface Range/Domain compatibility testing.
   (b) Discuss about linearizing transformations in domain testing.
5. (a) Define structured flow graph. Explain lower path count Arithmetic.
   (b) What is the looping probability of a path expression? Write arithmetic rules. Explain with an example.
6. (a) How can we determine paths and domains in the logic-based testing?
   (b) How the Boolean expressions can be used in the test case design?
7. What is meant by state testing? Discuss the testability tips?
8. (a) Write Partitioning Algorithm.
   (b) Write an algorithm for All Pairs Paths using Matrix Operations.

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