

Code: IT7T1

IV B.Tech - I Semester – Regular Examinations – November 2015

**SOFTWARE TESTING METHODOLOGIES
(INFORMATION TECHNOLOGY)**

Duration: 3 hours

Max. Marks: 70

Answer any FIVE questions. All questions carry equal marks

1. a) Explain different kinds of testing on a software system. 7 M

b) What are test bugs? Explain the remedies for the test bugs. 7 M

2. a) What is control flow graph? Explain the elements in it. 7 M

b) Explain the path testing for single loops. 7 M

3. a) Explain births and mergers in transaction flow testing. 7 M

b) What is data flow testing? Explain the data flow anomalies in detail. 7 M

4. Explain the nice domains in domain testing. 14 M

5. a) Explain the procedure for converting flow graph in to path expression. 7 M
- b) What is path expression? Explain the path product and path sum with examples. 7 M
6. a) Explain the test case design by using decision tables. 7 M
- b) How can we determine paths in domains in Logic based testing? 7 M
7. a) Write short notes on transitional bugs. 7 M
- b) What is good state graph? Explain the rules for judging good state graph. Give examples of bad state graph. 7 M
8. a) Explain the building tools in software testing. 7 M
- b) Write an algorithm to find set of all paths by using graph matrix. 7 M