Code: CS8T2B

## IV B.Tech - II Semester - Regular Examinations - April 2016

## SOFTWARE TESTING METHODOLOGIES (COMPUTER SCIENCE & ENGINEERING)

Duration: 3 hours Max. Marks: 70 Answer any FIVE questions. All questions carry equal marks 1. a) What are the goals for testing? 7 M b) Differentiate between testing and debugging. 7 M 2. a) Define path Testing. Explain three different path testing criteria. 6 M b) Write the definition and examples of a Predicates. 8 M Discuss the advantages and disadvantages of path selection in Transaction Flow. 14 M 4. a) How to test the two dimensional Domains? 7 M b) Explain the Nice domain with a diagram. 7 M 5. a) Write short notes on (a) Path sums (b) Loops. 6 M b) Explain about Lower path count arithmetic. 8 M

- 6. a) What is decision table and how is a decision table useful in testing? 7 M
  - b) Use a Karnaugh map to minimize F = AB'C'D' + A'B'C'D' + ABC'D + A'BCD + ABD+B'CD'+A'BC'D

7 M

- 7. a) Differentiate between good state graphs and bad state graphs.
  - b) What are principles of state testing? Explain its advantages and disadvantages. 7 M
- 8. a) Explain the basic principle of the Graph matrix. 7 M
  - b) Write about equivalence relation and partial ordering relation. 7 M