

Code No: RT41054

R13**Set No. 1****IV B.Tech I Semester Supplementary Examinations, March - 2017****SOFTWARE TESTING METHODOLOGIES****(Computer Science and Engineering)****Time: 3 hours****Max. Marks: 70***Question paper consists of Part-A and Part-B**Answer ALL sub questions from Part-A**Answer any THREE questions from Part-B*

PART-A (22 Marks)

1. a) Explain goals for testing and model for testing in software testing. [4]
- b) Define path testing and explain about decision and case statements. [4]
- c) Discuss about mutation testing. [4]
- d) Explain acceptance testing. [4]
- e) Why does a test suite grow? Explain. [3]
- f) Explain object oriented testing. [3]

PART-B (3x16 = 48 Marks)

2. a) What is software Testing? Explain about the myths and facts of it. [8]
- b) Explain about the software testing terminology with an example. [8]
3. a) Discuss about verification and validation with an example. [8]
- b) Explain about Cause-effect graph based testing and Decision table based testing. [8]
4. a) Demonstrate an anomaly can be detected. Explain different types of data flow anomalies and data flow anomaly state graphs. [8]
- b) Write applications of data flow testing. [8]
5. a) Illustrate between unit testing and integration testing with an example. [8]
- b) Explain about objectives and types of regression testing. [8]
6. a) Define a test case, test case design, test suite and explain how a test case designed for an travelling salesman problem. [8]
- b) Discuss about Software quality assurance metrics and its process. [8]
7. a) Explain about the categorization of testing tools and guidelines of automated testing. [8]
- b) Describe briefly about how the mobile systems are tested. [8]