Code No: **RT41054**

R13

Set No. 1

IV B.Tech I Semester Supplementary Examinations, February/March - 2018

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) a) List and explain reasons for testing. [4] Write about verification and validation goals. [3] c) List and Explain various types Mutation Testing. [4] Discuss about graph matrices. [3] d) Why should integrate JIRA with QTest? Explain briefly. e) [4] f) List and Explain categories of System Testing. [4] PART-B (3x16 = 48 Marks)2 Explain fundamental principles of testing. [8] a) b) Discuss reasons for different levels of testing and characteristics of good testing in life cycle model. [8] a) Discuss in detail static and dynamic verification and validation. 3 [8] b) Explain black box testing in detail. [8] What is static testing? Discuss in detail about parts of static testing. 4 [8] Define basis path testing. Explain various steps to calculate the independent paths. [8] What are the different regression testing tools and techniques? Explain in detail. 5. [16] Discuss the minimization of test suite with an example. [8] b) Explain how to eliminate defects using fix backlog and backlog management index. [8] Explain fundamental attributes of good automated test cases. 7. a) [8] b) Write about i. Web based system testing Mobile system testing [8] ii.