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
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PART–A *(22 Marks)*

1. a) List and explain reasons for testing.   [4]
    b) Write about verification and validation goals.   [3]
    c) List and Explain various types Mutation Testing.   [4]
    d) Discuss about graph matrices.   [3]
    e) Why should integrate JIRA with QTest? Explain briefly.   [4]
    f) List and Explain categories of System Testing.   [4]

PART–B *(3x16 = 48 Marks)*

2 a) Explain fundamental principles of testing.   [8]
   b) Discuss reasons for different levels of testing and characteristics of good testing
       in life cycle model.   [8]

3 a) Discuss in detail static and dynamic verification and validation.   [8]
   b) Explain black box testing in detail.   [8]

4 a) What is static testing? Discuss in detail about parts of static testing.   [8]
   b) Define basis path testing. Explain various steps to calculate the independent
       paths.   [8]

5.   What are the different regression testing tools and techniques? Explain in detail. [16]

6. a) Discuss the minimization of test suite with an example.   [8]
    b) Explain how to eliminate defects using fix backlog and backlog management
        index.   [8]

7. a) Explain fundamental attributes of good automated test cases.   [8]
    b) Write about
        i.   Web based system testing
        ii.   Mobile system testing   [8]

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