

Code No: RT41054

R13

Set No. 1

IV B.Tech I Semester Advanced Supplementary Examinations, May – 2022

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) Describe evolution of software testing. [4]
- b) Define equivalence class testing. Explain. [4]
- c) What is loop testing? Explain. [4]
- d) Briefly explain about unit validation testing. [4]
- e) What are benefits of investment on quality? [3]
- f) Write guidelines for automated testing. [3]

PART-B (3x16 = 48 Marks)

2. a) Discuss about myths and facts of software testing. [8]
- b) Describe the terminology of software testing. [8]
3. a) Explain about cause-effect graphing based testing in detail. [8]
- b) Define verification and validation, Explain about verification of requirements. [8]
4. a) What is the need of white-box testing? Explain logic coverage criteria. [8]
- b) Briefly explain about technical reviews in static testing. [8]
5. a) Explain in detail about acceptance testing. [8]
- b) Define regression testing? Explain regression testing techniques. [8]
6. a) Discuss about methods of quality management. [8]
- b) Explain about basics of testing management tools. [8]
7. a) Describe categorization of testing tools. [8]
- b) What are quality aspects? Explain testing of web-based systems. [8]