

Code No:RT41054

**R13**

**Set No. 1**

IV B.Tech I Semester Regular Examinations, November - 2016

**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 any two goals of software testing. [3]
- b) State at least two differences between verification and validation. [4]
- c) Define basis path testing. [4]
- d) Illustrate functional testing. [4]
- e) Describe on test suit prioritization. [4]
- f) List any two commercial software testing tools. [3]

**PART-B(3x16 = 48 Marks)**

2. Explain the model of testing in detail. Also render software testing life cycle model. Justify whether complete testing is possible or not. [16]
3. a) Illustrate on Decision table based testing and Graph based testing. [8]
- b) Explore on verification of requirements. [8]
4. a) Differentiate between white box testing and black box testing. [8]
- b) Briefly discuss the pros and cons of Inspections and Structured Walkthroughs. [8]
5. Explain in detail about various validation techniques with examples. [16]
6. a) Discuss on how to minimize the test suit and its benefits. [8]
- b) Discuss on SQA models. [8]
7. a) Testing a web based system is a tedious job. Do you agree? Justify. [8]
- b) List various guidelines for automated testing process. [8]

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**Set No. 2**

IV B.Tech I Semester Regular Examinations, November - 2016

**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*

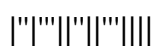
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**PART-A(22 Marks)**

1. a) Define a model for software testing. [3]
- b) List any two activities of validation testing. [4]
- c) Illustrate an example for loop testing. [4]
- d) State the objectives of regression testing. [4]
- e) Differentiate between bug and error. [4]
- f) Briefly list any three challenges in testing web based software. [3]

**PART-B(3x16 = 48 Marks)**

2. a) State the myths and facts about software testing. [8]
- b) Explore on software testing methodology in detail. [8]
3. a) Illustrate on Boundary Value Analysis and Equivalence class Testing techniques. [8]
- b) Explain in detail on how the verification of a code takes place. [8]
4. a) Discuss on Basis path testing with a neat sketch. [8]
- b) How do you represent Graph matrices for testing process? Devise the same with example. [8]
5. a) Differentiate between progressive and regressive testing process. [8]
- b) List various regression testing techniques. [8]
6. Describe various measures to prioritize test suit. Also explain about basics of testing management. [16]
7. a) Categorize various testing tools necessary for testing. [8]
- b) Explore on testing mobile systems. [8]



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**Set No. 3**

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**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*

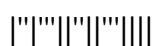
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**PART-A**(22 Marks)

1. a) Briefly describe software testing life cycle. [4]
- b) Describe how does the verification of a code is done. [4]
- c) Discuss on technical reviews. [3]
- d) Define unit testing. [4]
- e) State prioritization techniques. [3]
- f) Explain in brief about object oriented software testing. [4]

**PART-B**(3x16 = 48 Marks)

2. a) List the goals of software testing [8]
- b) Explain in detail about the model of software testing. [8]
3. Explore in detail about black box testing techniques with examples and neat sketch. [16]
4. a) Differentiate between dynamic testing and static testing. [8]
- b) List the features of Technical reviews. [8]
5. a) Define regression. Device the template for regression testability. [8]
- b) Explain about functional testing in detail. [8]
6. a) Explain in detail about software quality metrics. [8]
- b) How is debugging different from testing. Illustrate with an example. [8]
7. a) Discuss on cost issues incurred in selection of testing tools. [8]
- b) Explain about testing of web based systems. [8]



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**Set No. 4**

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**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) Differentiate effective and exhaustive software testing. [4]
- b) Devise the layout for boundary value analysis. [3]
- c) Define mutation testing. [3]
- d) State any two regression testing types. [4]
- e) State any three Software Quality metrics. [4]
- f) List any two guidelines for automated testing. [4]

**PART-B(3x16 = 48 Marks)**

2. a) Explain in detail the relationship between software test life cycle and software development life cycle. [8]
- b) Describe the features of software testing methodology. [8]
3. a) Differentiate between verification and validation. [8]
- b) Explore on State Table based testing and Error guessing. [8]
4. a) Discuss on Loop testing and data flow testing techniques in detail. [8]
- b) Explain about basis path testing with an example. [8]
5. a) Explain about unit testing with an example. [8]
- b) Discuss on Objectives of regression testing. [8]
6. Explain various types of bugs. Many different bugs might result in domain errors. Justify. [16]
7. a) Describe the testing process in object oriented structures. [8]
- b) List various types of testing tools with examples. [8]