

Code No: 126VR**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD****B. Tech III Year II Semester Examinations, May - 2019****SOFTWARE TESTING METHODOLOGIES****(Common to CSE, IT)****Time: 3 hours****Max. Marks: 75****Note:** This question paper contains two parts A and B.

Part A is compulsory which carries 25 marks. Answer all questions in Part A. Part B consists of 5 Units. Answer any one full question from each unit. Each question carries 10 marks and may have a, b, c as sub questions.

PART - A**(25 Marks)**

- 1.a) List the goals of software testing. [2]
- b) What is path sensitization? [3]
- c) Explain various loops with an example. [2]
- d) What is meant by testing? Write about any two application of data flow testing [3]
- e) Define nice and ugly domains. [2]
- f) Define domain testing with example. [3]
- g) What is regular expression? [2]
- h) What is logic based testing? [3]
- i) What are testability tips? [2]
- j) List the different types of tools required for test planning. [3]

PART - B**(50 Marks)**

- 2.a) Discuss about Myths related software testing and its facts.
- b) Explain about life cycle of Bug. [5+5]

OR

- 3.a) What is meant by integration testing and what are the goals of it.
- b) What are control and sequence bugs? How they can be caught? [5+5]

4. Discuss in detail data - flow testing strategies. [10]

OR

- 5.a) Compare data flow and path flow testing strategies.
- b) Distinguish between Control Flow and Transaction flow. [5+5]

- 6.a) Discuss with example the equal - span range/ Domain compatibility bugs
- b) Discuss
 - i) Non linear domain boundaries
 - ii) Complete domain boundaries. [5+5]

OR

7. State and explain various restrictions at domain testing processes. [10]

8. Explain Regular Expressions and Flow Anomaly detection. [10]

OR

9. Explain path expression with examples. [10]

10.a) Categorize various testing tools necessary for testing.

b) What are the using of win-runner? [5+5]

OR

11.a) What are the principles of state testing. Discuss advantages and disadvantages.

b) Explain about node reduction algorithm. [5+5]

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