

Code No: 825AH

R15**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD****MCA V Semester Examinations, January - 2018****SOFTWARE TESTING METHODOLOGIES****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**5 × 5 Marks = 25**

- 1.a) Describe the goals for software testing. [5]
- b) What is the purpose of data flow testing? [5]
- c) Explain path products and path sums with suitable examples. [5]
- d) Write brief notes on state graphs. [5]
- e) Discuss about matrix of graph. [5]

PART - B**5 × 10 Marks = 50**

- 2.a) Distinguish between testing and debugging.
- b) Explain about integration testing and system testing. [5+5]

OR

- 3.a) State and explain various control flow graph elements with suitable examples.
- b) Describe the path testing criteria. [5+5]

4. Describe in detail the transaction flow testing techniques. [10]

OR

5. State and explain the data flow testing strategies. [10]

6. Discuss about regular expressions and flow anomaly detection. [10]

OR

- 7.a) Describe the significance of domain testing.
- b) Explain about domains and interfaces testing. [5+5]

8. Explain good and bad state graphs with suitable examples. [10]

OR

9. Discuss in detail about state testing and testability tips. [10]

10. Compare Jmeter and winrunner testing tools. [10]

OR

- 11.a) Discuss the properties of relations.
- b) Explain partitioning algorithm. [5+5]

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