

Code No: 845AB**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD****MCA V Semester Examinations, December - 2019****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) List out and explain the reasons for testing. [5]
- b) Define dataflow testing and list out the applications of dataflow testing. [5]
- c) Write a short note on nice and ugly domains. [5]
- d) Explain about bad state graphs. [5]
- e) Discuss about graph matrices. [5]

PART - B**5 × 10 Marks = 50**

2. Is prevented bug better than a detected and corrected bug? Justify. [10]
- OR**
3. How software testing will ensure quality of developed software? Explain. [10]
4. Discuss in detail about transaction flow testing techniques. [10]
- OR**
5. Explain the terms slicing, dicing and debugging with reference to Testing. [10]
6. Define path testing. Explain various steps to calculate the independent paths. [10]
- OR**
7. What is the purpose of domain testing? Give its schematic representation. [10]
8. Write the procedure for specification validation using KV charts. [10]
- OR**
9. How can we determine paths in domains in Logic based testing? [10]
10. Explain the test case design for ATM example. [10]
- OR**
11. Write about powers of matrix and node reduction algorithm. [10]

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