R13

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD B. Fech III Year II Semester Examinations, May: 2016 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) Define testing and debugging. [2] 1.a) What are the elements of flow graph? [3] b) What is Data-flow testing? [2] c) d) Give an example of a transaction-flow. [3] e)What is domain testing? .[2] f) :: Define linear vector space. ::: [3] What are distributive laws? [2] g) h) Give examples of four variable KV-chart. [3] i) Define state-transition table. [2] What is partial ordering relation? [3] j) PART - B × **** (50 Marks) 2.a) Distinguish the following: i) Function vs structure b) "How should you go about quantifying the nightmare? Explain. ::::::::::ii) The builder: vs Buyer 3.a) Is complete testing possible? Explain. b) What are the three kinds of loops? Explain with example. [5+5]4.a) Describe the complications of transaction flows: What are data-flow anomalies? Explain. 5.a) Define transaction flow testing. Explain transaction flow structure. Explain about the data-flow model with example. b) [5+5]**** 6.a) What are the restrictions of domain testing? Explain. How to test two-dimensional domains? Explain. [5+5]b) What is the strategy of domain testing? Explain in brief. 7.a) [5+5]Discuss about domains and testability.

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