

Code No: 156CW

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD**B. Tech III Year II Semester Examinations, August/September - 2021****SOFTWARE TESTING METHODOLOGIES****(Common to CSE, IT)****Time: 3 Hours****Max. Marks: 75**

Answer any five questions
All questions carry equal marks

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- 1.a) State and explain various dichotomies in software testing.
b) Explain the life cycle of Bug. [8+7]
- 2.a) What are control and sequence bugs? How can they be caught?
b) Explain heuristics procedures for sensitizing paths. [7+8]
- 3.a) Compare data flow and path flow testing strategies.
b) Explain transaction-flow graph implementation with example. [7+8]
- 4.a) What is program slicing? Explain Dynamic program slicing.
b) Explain predicates of domain testing with examples. [8+7]
- 5.a) Write the role of path expression and path predicates in testing.
b) Write the procedure to count the minimum number of paths in a graph. [7+8]
6. Demonstrate through truth tables the validity of the following theorems of Boolean algebra:
a) Associative Law
b) De Morgan's theorems for three variables
c) Distributive Law. [5+5+5]
- 7.a) Explain about good state and bad state graphs. How to handle bad state graphs.
b) Write short notes on:
i) Transition Bugs
ii) Dead States. [7+8]
- 8.a) Explain the features of the Jmeter Testing environment.
b) How to record tests and set checkpoints in win runners? Explain. [7+8]

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