Code No: 126VR JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD B. Tech III Year II Semester Examinations, December - 2018 SOFTWARE TESTING METHODOLOGIES (Common to CSE, IT)

Time: 3 hours

1.a)

b)

c)

d)

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) What are feature bugs? Distinguish between builder and buyer. What is Petri net? Explain about data flow anomaly graph with example. What is domain span?

e) [2] Discuss about domain dimensionality. f) [3] Define silicon compilers. [2] g) Write eight steps in a reduction procedure. h) [3] What is impossible state? i) [2] Distinguish between manual testing and automated testing. **i**) [3]

PART - B

2.a) What are structural bugs? Explain. Describe notational evolution of control flow graph with example. b) [5+5] OR Explain heuristics procedures for sensitizing paths. 3.a) Is testing is everything? Explain. b) [5+5]4.a) Discuss about the data flow model. Explain transaction-flow graph implementation with example. b) [5+5] OR What are the structural test strategies based on the program's control flowgraph? 5.a) Explain. Discuss about complication in transaction-flow testing. [5+5]b) Explain about testing one-dimensional domains. 6.a) b) Write about restrictions of domain testing. [5+5]OR

Define domain testing. Explain about nice domains in detail. 7. [10]

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Max. Marks: 75

(50 Marks)

[2]

[3]

[2]

[3]

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8.a)	Describe the mean processing time of a routine with example.	
b)	Write rules of Boolean algebra.	[5+5]
	OR	
9.a)	Briefly explain about regular expressions and flow-anomaly detection.	
b)	Write the procedure for specification validation.	[5+5]
10.a)	What are some situations in which state testing may prove useful? Explain.	
b)	What are properties of relations? Explain.	[5+5]
	OR	
11.a)	Explain software implementation of state graphs.	
b)	Discuss about matrix representation software.	[5+5]

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