

Code No: 825AH JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD MCA V Semester Examinations, June/July - 2018 SOFTWARE TESTING METHODOLOGIES

Time: 3 Hours

1.a)

b)

c)

d)

e)

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

Explain different types of loops and related bugs with examples.

What are the components of a data flow model? Explain.

What is meant by domain dimensionality?

Distinguish between path sums and path products.

Discuss about the matrix operations in tool building.

	PART - B	
	- Ho.	5 × 10 Marks = 50
2.a) b)	How control and sequence bugs can be caught? Explain their consequence Explain about simple independent and co-related predicates.	nces. [5+5]
2 c) Discuss shout the bugs related to intermal and external interfaces and its consequences		
5.a)	Discuss about the bugs related to internal and external interfaces and its	s consequences.
b)	What is the use of link counters in path testing? Explain.	[5+5]
4.a)	What are data flow anomalies? Discuss them with examples.	
b)	Discuss about transaction flow testing and its significance.	[5+5]
	OR	
5.a)	Compare different data flow testing strategies.	
b)	What are the applications of transaction flow testing? Discuss.	[5+5]
6	Explain the following domain boundaries with examples	
0.	a) Linear & Non-linear b) Nice & Ugly	[5+5]
		[5+5]
7	With asymptotic explain the applications of the following with respect to	o testing
1.	a) Decular Expressions (b) Eleve anomaly detection	$\int ucsung.$
	a) Regular Expressions b) Flow anomaly detection	[3+3]

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Max. Marks: 75



Ex E Mordea 25

[5]

[5]

[5]

[5]

[5]

5×5 Marks = 25



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- 8.a) How Boolean expressions can be used in test case design? Explain.
- b) Discuss about the contradictions and ambiguities in specifications. [5+5]

OR

- 9.a) What are state graphs? What kind of bugs can cause state graphs? Explain.
- b) With an example, explain the process of converting a specification into a state graphs.

[5+5]

- 10.a) What are the benefits of using tools in software testing? Discuss.b) What is the power of a matrix in Graph representation? Explain. [5+5]
 - OR
- 11.a) How does Win runner recognize objects in an application? Explain.
 - b) What are the merits and demerits of different graph matrix representations? Discuss.[5+5]

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