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May Market 75

[10]

Code No: 126ER

Time: 3 hours

c) Domain closure

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD B. Tech III Year II Semester Examinations, May - 2017 SOFTWARE TESTING METHODOLOGIES

(Common to CSE, IT)

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Note:	This question paper contains two parts A and B. Part A is compulsory which carries 25 marks. Answer all questions in Part A. P consists of 5 Units. Answer any one full question from each unit. Each question can be marks and may have a, b, c as sub questions.	
	PART - A	
	(25 Ma	arks)
1.a) b) c) d) e) f) g) h) i)	What is the intent of path based testing? What are the complications with transaction flows? What are the applications of data flow testing? Explain. What is Interface testing? Give example. What is the purpose of Domain Testing? Give its schematic representation. What is decision table and how is a decision table useful in testing? How can we check the consistency and completeness in the decision tables? What are the applications of node reduction algorithm?	[2] [3] [2] [3] [2] [3] [2] [3] [2] [3]
	PART - B	
	(50 Ma	arks)
2.	What are the consequences of bugs? To what extent can testing be used to validate the program is fit for its purpose? Explain. OR	that [10]
3.	What is the purpose of testing? Discuss about various testing dichotomies examples.	with [10]
4.	Explain the Transaction Flow testing with an example. OR	[10]
5.	Discuss the following strategies of data flow testing with suitable examples: a) All-predicate-uses (APU) strategy	[5+5]
6.	What is meant by a nice domain? Give an example for nice two-dimensional doma	ins. [10]
_	OR	
7.	Define the following concepts with respect to domain testing: a) Domains b) Domain dimensionality	

d) Bug Assumptions for domain Testing www.ManaResults.co.in

8. What is the looping probability of a path expression? Write arithmetic rules and explain with an example. [10]

OR

- 9. Describe the procedure for specification validation using KV charts. [10]
- 10. What are the principles of state testing? Explain its advantages and disadvantages. Mention design guidelines for building finite state machines into your code. [10]
- 11. Write a detailed note on graph matrices and their applications. Write about the usage of Winrunner tools. [10]

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