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Code No: 815BE

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD MCA V Semester Examinations, January - 2018 SOFTWARE TESTING METHODOLOGIES

Time: 3 Hours

Note: This question paper contains two parts A and B. Part A is compulsory which carries 20 marks. Answer all questions in Part A. Part B consists of 5 Units. Answer any one full question from each unit. Each question carries 8 marks and may have a, b, c as sub questions.

PART - A

- 5×4 Marks = 20 What is the purpose of testing? List various dichotomies. 1.a) [4] Explain how data flow testing is helpful in fulfilling the gaps in path testing. b) [4] How to find approximate minimum number of paths? Demonstrate with example. [4] c) Differentiate between good state graphs and bad state graphs. d) [4] [4]
 - Explain about relations and its properties. e)

PART - B

2.a) b)	Discuss about assignment blindness and equality blindness of predicates. Justify how flowchart is different from control flow graph.	[4+4]	
3.a)	3.a) State and explain various path selection rules for path testing.		
b)	Explain about various types of structural bugs.	[4+4]	
4.	Discuss the All-Predicates-Uses (APU) and All-Computational-Uses (ACU) str	U	
	data flow testing with suitable examples.	[4+4]	
OR			
5.	Explain transaction flow testing with an example. Discuss about sensitiz		
	instrumentation based on transaction flows.	[8]	
6.	Explain a regular expression and flow anomaly detection methods with exam		
	write their applications and limitations.	[8]	
OR			
7.	Demonstrate the steps involved in node reduction procedure. Using this procedure		
	flow graph whose links are labeled into a path expression.	[8]	
8.a)	Describe the procedure for specification validation using KV charts.		
b)	Demonstrate the software implementation issues in state testing.	[4+4]	
OR			
9.	What is Decision Table? How is a decision table useful in testing? Give exam	-	
	explain about don't care and impossible terms.	[8]	
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10.	Write a detailed note on the usage of JMeter and Win-Runner tools.	[8]	
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11.	Define graph matrices and evaluate graph matrix with pictorial graph. Also		
	applications.	[8]	

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Max. Marks: 60

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 5×8 Marks = 40