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B.E. (Information Technology) Seventh Semester (C.B.S.)

Elective - II : Software Testing & Quality Assurance

P. Pages: 2 NRT/KS/19/3589 Time: Three Hours Max. Marks: 80 Notes: 1. All questions carry marks as indicated. 2. Solve Question 1 OR Questions No. 2. Solve Question 3 OR Questions No. 4. 3. 4. Solve Question 5 OR Questions No. 6. Solve Question 7 OR Questions No. 8. 5. Solve Question 9 OR Questions No. 10. 6. Solve Question 11 OR Questions No. 12. 7. Due credit will be given to neatness and adequate dimensions. 8. Assume suitable data whenever necessary. 9. 7 Explain the characteristics of good software. Explain the most common software errors 1. a) in software execution. Explain the need of software along with it advantages. b) 6 OR What is software testing? Give a brief note on Unit Integration and Regression testing. 2. 7 a) b) Explain the sequence of testing activities Performed by a test engineer in testing a 6 program. 3. Enlist and explain various tools for Unit Testing. 7 a) b) Give three characteristics of the version control and configuration management tool. 6 OR 4. What is defect prevention? What are kinds of checks that are to be performed routinely 8 a) to avoid the defect. What is debugging & the three approaches to debugging. 5 b) 5. Explain the concept of control flow testing give proper example. a) 6 b) Explain control flow graph with example. 8 OR Describe test data selection using example. 6. a) 6 b) Write a detailed note on path in control flowgraph. 8 Explain the data flow anomalies in the data flow testing. 7. a) 8

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	b)	Explain the dynamic data flow testing with example.	5	
OR				
8.	a)	Describe global C-use. Global definition clean path loop free path and du-path a variable in dataflow testing.	7	
	b)	Write short notes on McCabe's complexity measure.	6	
9.	a)	Discuss the importance of Regression testing when developing a new software release. What test cases from the test suit would be more useful in performing a Regression test?	6	
	b)	What are the similarities and defferences between quality assurance and safety measure.	7	
OR				
10.	a)	What is robustness test? Explain various reasonable test which are involved in robustness test.	6	
	b)	Give the significance of functionality test and also explain deferent categories of tests involved in it.	7	
11.	a)	What are objective of Accepting testing.	5	
	b)	Why are Acceptance test cases executed in two phase.	5	
	c)	What is software Quality.	4	
	OR			
12.	a)	Explain ISO 9001:2001 software Quality standards and its requirement.	8	
	b)	Draw the data flow graph for the Binary Search routine and explain the same.	6	





It's hard to beat a person who never gives up.

~ Babe Ruth

