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	P.E.S. College of Engineering, Mandya - 571 401	
ALL ALL	(An Autonomous Institution affiliated to VTU, Belagavi)	
	Eighth Semester, B.E Computer Science and Engineering Semester End Examination; May/June - 2018	
	Software Testing	
Ti	me: 3 hrs Max. Marks: 100	
No	te: Answer FIVE full questions, selecting ONE full question from each unit. UNIT - I	
1 a.	Explain with a neat diagram, Errors, Fault, Failure, Incident, Test and Test cases in the	
	process of programming and testing.	10
b.	With a neat sketch, explain the features of 'The SATM' system.	10
2 a.	With a neat diagram, explain the currency converter and Saturn wind shield wiper controller.	10
b.	Explain different levels of testing with a neat sketch and list the differences in brief.	10
	UNIT - II	
3 a.	Describe the steps involved in a systematic procedure for equivalence partitioning by	
	considering an application that takes two input <i>x</i> and <i>y</i> where $3 \le x \le 7$ and $5 \le y \le 9$ with a	
	geometric representation of equivalence classes.	10
b.	Explain with a figure, the different steps involved in the generation of tests using the	
	category partition method.	10
4 a.	Explain Decision Table based testing with an example of Test cases for the triangle problem.	10
b.	Explain the following :	10
	i) Robustness testing ii) Special value Testing	-
	UNIT - III	
5 a.	Define path. What are DD paths? Draw the program graph for triangle problem with suitable	
	test cases.	10
b.	Discuss the following with an example :	
	i) Slice-based testing ii) Definition-use testing	10
6 a.	With a neat sketch, explain call graph-based testing with an example of SATM system.	10
b.	Discuss the following with an example :	10
	i) Decomposition based testing	10
	ii) Path-based integration.	
7 0	UNIT - IV Briefly explain about functional strategies for thread testing	10
/ a.	Briefly explain about functional strategies for thread testing.	10

b. Briefly explain, Atomic system functions testing with an example. 10

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8 a.	With a neat diagram, explain the relation of verification and validation activities with respect	
	to artifact produced in software development project.	10
b.	Explain the sin principles that characterize various approaches and techniques for analysis	10
	and testing.	10
	UNIT - V	
9 a.	Define scaffolding, distinguish between Generic versus Specific scaffolding briefly.	10
b.	Explain about :	
	i) Test Oracle	10
	ii) Capture and Relay	10
	iii) Test Cases	
10.	Write a short note on :	
	i) Risk Planning	
	ii) Quality and process	20
	iii) Test and analysis strategies and plan	
	iv) Quality goal	
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