Co	de No: V3126	R07	Set No: 1		
	III B.Tech. I Semester Supplementary Examinations, April/May – 2013				
Tir	SOFTWARE T (C ne: 3 Hours Answ All Que	TESTING METHODOLOGIES Common to CSE, IT) Yer any FIVE Questions estions carry equal marks *****	Max Marks: 80		
1.	a) What are the goals of testing? Wb) Give some Bug statistics.c) How should you go about quanti	hy testing? fying the nightmare?	[5M+5M+6M]		
2.	a) Describe heuristic procedures forb) Explain implementation and appc) How to test Multi-entry/Multi-ex	r sensitizing paths. lication of path testing. tit routines? Explain.	[5M+5M+6M]		
3.	a) What do you do when you see a testing.b) What are data flow anomalies? Ec) Explain ADUP strategy with example.	Graph? Explain the implementation explain. Explain. Imple.	of transaction flow [6M+6M+4M]		
4.	a) What are various domain errors?b) Describe span compatibility withc) How to test two-dimensional dor	Explain. 1 examples. nains? Explain.	[5M+5M+6M]		
5.	a) How to determine the mean procb) Explain about path products andc) Briefly describe a reduction proc	essing time of a routine? Explain. path sums. edure.	[6M+5M+5M]		
6.	a) What is the test case design of Bb) Describe definitions and notationc) Define KV chart. Explain its sime	oolean algebra? Explain. 1 of decision tables. ple forms with examples.	[5M+5M+6M]		
7.	a) Discuss in detail about transitionb) Explain about good state graphs	bugs. and bad.	[8M+8M]		
8.	Explain the following:a) Graph matrixb) Partitioning algorithmc) Synchronization of test cased) Usage of JMeter for function test	ting	[4M+4M+4M+4M]		

Code 1	No: V3126	Set No: 2	
	III B.Tech. I Semester Supplementary Examinations, April/May	7 – 2013	
Time:	3 Hours SOFTWARE TESTING METHODOLOGIES (Common to CSE, IT) Answer any FIVE Questions All Questions carry equal marks ****	Max Marks: 80	0
1.	a) Is complete testing possible?b) Explain the following phrase: "Testing isn't everything".c) What are structural bugs? Explain.	[5M+5M+6M	[]
2.	a) Discuss about notational evolution of control flowgraph.b) Explain three kinds of loops in detail.	[8M+8M]]
3.	a) Describe application, tools and effectiveness of data-flow testing.b) What are the components of data-flow model? Explain.c) Discuss about complications in transaction-flow testing.	[6M+4M+6M	[]
4.	a) How to test one-dimensional domains? Explain.b) Define domain testing. Distinguish between systematic and orthogc) Explain in detail about domains and interface testing.	onal boundaries. [5M+5M+6M	[]
5.	a) Give an example of dataflow testing.b) What is the fewest number of paths possible? Give an example.c) Write Haung's theorem. Give an example.	[5M+6M+5M	[]
6.	a) Explain in detail about decision tables and structure.b) Discuss in detail about specifications in Logic-based testing.	[8M+8M]]
7.	a) Describe state testing in detail.b) Define state and state table.c) Explain about essential and inessential finite-state behavior.	[8M+4M+4M	[]
8.	Explain the following:a) Matrix representation in softwareb) Properties of Relationsc) Papid testing		
	d) HTTP connection for website access	[4M+4M+4M+4M]

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	III B.Tech. I Semester Supplementary Examinations, April/May	- 2013
Tin	ne: 3 Hours Answer any FIVE Questions All Questions carry equal marks ****	Max Marks: 80
1.	a) What are test and test design bugs?b) Discuss about the importance of bugs?c) Describe a model for testing.	[4M+4M+8M]
2.	a) Define traversal marker. Explain with example.b) What is testing blindness? Explain kinds of blindness.c) Describe fundamental path selection criteria.	[6M+6M+4M]
3.	a) Discuss in detail about transaction-flow testing techniques.b) Distinguish between forgiving and unforgiving dataflow anomaly statec) What are the strategies of data-flow testing? Explain.	e graphs. [6M+4M+6M]
4.	a) Explain about domains and testability.b) What is the strategy of domain-testing? Explain domain bugs and how	to test for them.
5.	a) Write and explain node-by-node removal algorithm with suitable examb) What is the average number of paths available in a flowgraph? Give an	iple. 1 example. 10M+6MI
6.	a) Describe test case design of decision tables.b) Give motivational overview of Logic-based testing.c) Discuss in detail about Boolean algebra.	[5M+5M+6M]
7.	a) Explain about equivalent states.b) What should you do if you must build finite-state machines into your of c) How to convert a specification into a state graph? Give an example.	code? [5M+5M+6M]
8.	 Explain the following: a) Partial ordering relations b) The matrix of a graph c) Creation of test script for unattended testing d) Parformence testing of a database application 	F 4 N.G. + 4 N.G. + 4 N.G. + 4 N.G. +
	a) Performance testing of a database application	[4] VI+ 4] VI+ 4] VI+ 4] M]

Co	le No: V3126	Set No: 4		
III B.Tech. I Semester Supplementary Examinations, April/May – 2013				
Tin	ne: 3 Hours Answer any FIVE Questions All Questions carry equal marks ****	Max Marks: 80		
1.	a) Describe interface, integration and system bugs in detail.b) Distinguish between testing and debugging.c) Write and explain about bug consequences.	[5M+5M+6M]		
2.	a) What is path testing? Explain effectiveness of path testing.b) Discuss about predicate expressions.c) What is the path-testing criterion?	[6M+6M+4M]		
3.	a) Why isn't static analysis enough? Why is testing required?b) What is data-flow testing? Explain data flow graphs.c) Explain path selection, sensitization, and instrumentation of transaction	n-flow testing. [4M+6M+6M]		
4.	a) Describe ugly domains and how programmers and testers treat them.b) Explain in detail about domains and paths.	[6M+10M]		
5.	a) What is a KV-chart? Explain three variables KV-chart.b) Explain in detail about decision tables and structure.c) What are the rules of Boolean algebra? Explain.	[4M+6M+6M]		
6.	a) What is the maximum number of different paths available? Explain withb) Explain about regular expressions and flow-anomaly detection.	ith example. [8M+8M]		
7.	a) Describe software implementation of state graphs with suitable exampb) Define improper state graph. Give some examples.c) Define unreachable state and dead state.	le. [8M+4M+4M]		
8.	Explain the following:a) Usage of Winrunner for regression testingb) Node-reduction algorithm.c) Motivational overview of graph matrices.	[4M+8M+4M]		