## Eighth Semester B.E. Degree Examination, December 2010 Software Testing

Time: 3 hrs.

Any revealing of identification, appeal to evaluator and /or equations written eg, 42+8 = 50, will be treated as malpractice.

Important Note: I. On completing your answers, computsorily draw diagonal cross lines on the remaining blank pages.

Max. Marks:100

Note: Answer any FIVE full questions, selecting

		at least TWO questions from each part.		
PART-A				
Table 4	a	2 The state of the	pertaining to	
	b	programs.  Discuss the types of metrics used in software testing and their relationship.	(10 Marks) (10 Marks)	
2	a	Explain software testing and hardware testing over fault models, test domain a	_	
	b. c.	S	(04 Marks) (04 Marks) (12 Marks)	
3	a. b.	using unidimensional and multidimensional partitioning. Construct two sets of Test for the above, using the equivalence classes.	nput domain f test – data. (16 Marks)	
		i) Boundary – value analysis; ii) Category – partition method.	(10 Marks)	
샵	a. b.	Devise the procedure for generation of test, using cause – effect graphing. What is predicate testing, its fault model and testing criteria?	(10 Marks) (10 Marks)	
PART - B				
5	a.	List the different elements in control flow. Discuss them with regard to testin criterion and coverage.	g, adequacy (16 Marks)	
	b.	Explain the procedure call testing.	(04 Marks)	
6	a. b.	Describe definition – use pairs with a suitable example. What is reaching definition? Illustrate with an algorithm by applying flow equations.	(06 Marks)	
	c,	Define the various data flow testing criteria.	(06 Marks) (08 Marks)	
7	a.	Define the following: i) Test case; ii) Test case specification; iii) Test of iv) Test suite; v) Test execution; vi) Test adequacy criterion	bligation;	

- iv) Test suite; v) Test execution; vi) Test adequacy criterion. (06 Marks) b. What is scaffolding? Describe generic and a application specific scaffolding. (08 Marks)

  - c. Briefly explain the test oracles.

(06 Marks)

- 8 Write short notes on the following:
  - a. Integration testing
  - b. System testing

(20 Marks)

c. Acceptance testing d. Regression testing.

