

Part-A (Objective Paper)			
Answer all the following Questions (5 Multiple choices & 5 Fill in the blanks).			Marks: 10X1/2M=5M
S.No		BTL	CO
1	<p>The drawback of the decision table is that:</p> <p>A. Insufficient program logic      B. No clarity</p> <p>C. Implicit relation to specification    D. Low level maintainability</p>	L1	CO3
2	<p>If there are k predicates, the maximum number of possible predicate cases is_____</p> <p>A. 2k      B. 2K      C. 2k-1      D. 2K-1</p>	L1	CO3
3	<p>The state graph's elements do not include_____</p> <p>A. states    B. input/output    C. transitions    D. State machines</p>	L1	CO4
4	<p>The first step in implementing the state graph is to_____</p> <p>A. implementation and operation      B. input encoding</p> <p>C. output encoding                      D. state codes</p>	L1	CO4
5	<p>If a matrix column has two or more 1s, the matrix is said to be</p> <p>A. Branch node      B. Junction node      C. loop</p> <p>D. both (a) and (b)</p>	L1	CO5
6	<p>The simplest type of reasoning is_____.</p>	L1	CO3
7	<p>_____is a table that contains a collection of conditions as well as the actions that go with them.</p>	L1	CO3
8	<p>_____ is the process of turning characters to numbers.</p>	L1	CO4
9	<p>A tabular representation of a state graph is referred to as_____.</p>	L1	CO4
10	<p>A relation that satisfies the reflexive, transitive, and antisymmetric qualities is_____</p>	L1	CO5

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S.No		BTL	CO
1	ABCD+BCD+CD+AB can be reduced to A. CD+AB      B. 1      C. CD      D. AB	L1	CO3
2	To reduce Boolean expression, the initial step is to A. Replace identical terms B. Remove parenthesis C. The term containing a variable and its D. Compliment is removed	L1	CO3
3	Bugs that aren't Caused By State Graphs are_____ A. State bugs      B. Output errors C. Encoding bugs      D. None	L1	CO4
4	The state graph depicts_____ A. Time      B. Sequence C. States      D. None	L1	CO4
5	The equivalence connection does not have to be satisfied_____ A. reflexive      B. symmetric C. Lantisymmetric      D. transitive	L1	CO5
6	_____gathers knowledge from knowledge repository or domain such as Engineering law into Database.	L1	CO3
7	The table translator will look for_____of source table and fill in the default rules.	L1	CO3
8	Two states are known as_____ if every series of inputs from one state creates exactly the same sequence of outputs for other states.	L1	CO4
9	Under all conditions, FSM behaves in the_____.	L1	CO4
10	In the node reduction optimization process, the node Of _____ degree should be deleted first.	L1	CO5

Answer all the following Questions (5 Multiple choices & 5 Fill in the blanks).		Marks: 10X1/2M=5M	
S.No		BTL	CO
1	The number of interchanges for each combination of predicate truth values for n predicates would be  A. $N(n-1)/2$ B. $2n$ C. $N^2$ D. $N(n-1)$	L1	CO3
2	Boolean Algebra expression laws $AB =$  A. $A' \cdot B'$ B. $A+B$ C. $A' + B'$ D. $(A+B)'$	L1	CO3
3	In the case of a good state graph____  A. Bugs are easy to find  B. sequence of inputs does not lead to initial state  C. Bugs are more		

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S.No		BTL	CO
1	<p>ABC+BCD+CDE+EFG is in the form of____</p> <p>A. Sum of products                      B. Product of additions</p> <p>C. Reduction of sums                  D. Product of sums</p>	L1	CO3
2	<p>In KV charts, the order of grouping should be</p> <p>A. octets,islands,pairs,quads</p> <p>B. octets, quads, pairs, islands</p> <p>C. quads, pairs, islands, octets</p> <p>D. islands, pairs, quads, octets</p>	L1	CO3
3	<p>The state in which no input sequence may be reached Is referred to as</p> <p>A. Dead state                              B. Reachable state</p> <p>C. Unreachable state                      D. Ambiguous State</p>	L1	CO4
4	<p>In the situation of _____A contradictory and ambiguous state occurs.</p> <p>A. Transaction bugs                      B. Encoding bugs</p> <p>C. Output errors                          D. State bugs</p>	L1	CO4
5	<p>When nodes of degree 3 are deleted from a node reduction optimization, total linkages are _____</p> <p>A. reduced 1                              B. not changed</p> <p>C. increased                                D. reduced by 2</p>	L1	CO5
6	<p>The table translator will look for_____of source table and fill in the default rules.</p>	L1	CO3
7	<p>When a decision table acts as a_____it is used for test case design.</p>	L1	CO3
8	<p>Two states are known as_____ if every series of inputs from one state creates exactly the same sequence of outputs for other states.</p>	L1	CO4
9	<p>In terms _____of there is a distinction between FSMs and combinational machines.</p>	L1	CO4
10	<p>A node's number of outlinks is referred to as_____.</p>	L1	CO5

	Compare domain and interface testing.
	Define domains, path and testability.
	Explain path expression with examples
	a) Write the procedure for specification validation b) Describe the mean processing time of a routine with example.
	a) Explain about good state and bad state graphs b) What are properties of relations? Explain.
	What are graph matrices and their applications? Explain in detail.
	Write about nice and ugly domains and give examples to each domain.
	Explain the schematic representation of domain testing.
	Write short notes on following: a) Distributive laws b) Absorption rule c) Loops d) Identity elements.
	Briefly explain about regular expressions and flow-anomaly detection
	a) Explain about state bugs b) Explain state testing in detail.
	Explain about node reduction algorithm.
	Explain the schematic representation of domain testing.
	Difference between domain and interface testing.
	Describe push/pop and get/return models in path testing.
	Explain basic concepts of path products and path expressions.
	a) Discuss about the win-runner. b) Explain good state graph with suitable example
	Elaborate node reduction algorithm with an example.
	State and explain various restrictions at domain testing processes.
	Explain predicates of domain testing with example.
	a) Compare structured and unstructured flow graphs and illustrate with an example. b) Write rules of Boolean algebra.

	Explain about regular expressions and flow-anomaly detection
	What are graph matrices and their applications? Explain in detail.
	Discuss about matrix representation software