TCS_Introduction Total points 10/10 ? Test Email address * ameythakur@ternaengg.ac.in Roll No * 50 Name * Amey Thakur Division *

	✓	1]What is the Cardinality of the Power set of the set {0, 1, 2}? *	1/1
	•	8	✓
	0	6	
	0	7	
	0	9	
	✓	2]The members of the set S = {x x is the square of an integer and x < 100} isa) *	1/1
	0	{0, 2, 4, 5, 9, 58, 49, 56, 99, 12}	
	•	{0, 1, 4, 9, 16, 25, 36, 49, 64, 81}	✓
	0	c) {1, 4, 9, 16, 25, 36, 64, 81, 85, 99}	
	0	d) {0, 1, 4, 9, 16, 25, 36, 49, 64, 121}	
	✓	3]The following two sets 'A' & 'B' are equal. State True/False, A={1, 1, 2, 3, 3}, B = {1, 2, 3} * $\frac{1}{2}$	1/1
	•	True	~
	0	False	
	✓	4]Is set 'S' a set of sets? S= { {1, 2}, 4, {3, 5, 9} } *	1/1
	0	yes	
	•	No	✓
<u> </u>			

✓ 5]Select which options are correct ? 1. Type 0 grammar can be 1/1 represented using TM, 2. Finite Automata has least power of computation, 3. Context Sensitive languages can be represented using least bounded Automata, 4. Context free grammar can be represented using Finite Automata *
1 & 2 is True but 3 & 4 is False
None of them is True
1,2,3 are True but 4 is false
All are True
✓ 6]If set A = {4, 5, 6}, set B = {a, b, c} and C = {6, 5, 4}, Select which of the 1/1 following is True. *
Only set A & B are equivalent
Only set A & C are equivalent
Only Set A & B are equal
Only Set A & C are equal
7]if A is a proper subset of B, then there does not exists any element in 1/1 set B which does not belong to set A . State True or False *
True
False

✓ 8]FA consist of tuples *	1/1
O 4	
5	✓
O 3	
O 6	
9]Finite automata can be represented by *	1/1
Transition Graph	
Transition Table	
Transition graph and transition table	✓
onone of the above	
✓ 10]A Finite automata is instate *	1/1
	1,7 1
accepted	
accepted or rejected	✓
rejected	
onone of the above	

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