## TCS\_Quiz 1\_SH-20[co1]







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✓ 1]The concept of FSA is much used in this part of the compiler *	1/1
lexical analysis	<b>✓</b>
parser	
Code generation	
ode optimization	

<b>~</b>	2]Palindromes can't be recognized by any FSA because *	1/1
0	FSA cannot remember arbitrarily large amount of information	
0	FSA cannot deterministically fix the midpoint	
0	Even if the mid point is known an FSA cannot find whether the second half of the string matches the first half	
	all of the above	<b>✓</b>
~	3]A language L is accepted by a FSA iff it is *	1/1
0	.CFL	
0	CSL	
0	recursive	
•	regular	<b>✓</b>
<b>/</b>	4]R1 and R2 are regular sets. Which of the following is not true? *	1/1
<b>()</b>	R1 ∩ R2 neet not be regular	<b>✓</b>
0	$\Sigma^*$ – R1 is regular	
0	R1 ∪ R2 is regular	
0	is regular	

×	5]An FSM with *	0/1
0	stack is more powerful than an FSM with no stack	
0	stacks is more powerful than a FSM with 1 stack	
•	both (a) and (b)	×
0	None of these	
×	6]If two finite state machines are equivalent, they should have the same number of *	0/1
0	states	
0	edges	
•	states and edges	×
0	none of these	
<b>✓</b>	7] L = {aP   p > 1; } is prime is *	1/1
0	regular	
•	not regular	<b>✓</b>
0	accepted by DFA	
0	accepted by PDA	

√ 8]Which of the following are not regular?*  1/1
String of 0's whose length is a perfect square
Set of all palindromes made up of 0's and 1's
Strings of 0's, whose length is a prime number
All of these
9]The main difference between a DFSA and an NDFSA is * 1/1
in DFSA, ε transition may be present
in NDFSA, ε transitions may be present
in DFSA, from any given state, there can't be any alphabet leading to two diferent states
in NDFSA, from any given state, there can't be any alphabet leading to two diferent states
✓ 10] The major difference between a moore and mealy machine is that * 1/1
output of the former depends on the present state and present input
output of the former depends only on the present state
output of former depends only on the present input
all of these

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