Quiz 5

Due Sep 26 at 11:59pm **Points** 6 **Questions** 6

Available Sep 22 at 11:59pm - Oct 5 at 11:59pm Time Limit 30 Minutes

Instructions

• The quiz should be taken in a closed book environment. Complete the quiz in 30 minutes
The questions can be in many formats (Multiple Choice/Multiple answers/Fill in the blanks)
The quiz should be attempted after completing the weekly Assignment to give more preparation.

These short activities will give a feedback about the understanding of the material at hand.

Even though these are time bound, I have allocated enough time for each question.

This a weekly quiz to be completed by Sunday of the week.

Check your quiz score and the correct answers after Monday following the quiz.

Assignment scoring

- Each of the assignments will yield 6 points.
- o Note the assignments put together account for 25% of the grade

Attempt History

	Attempt	Time	Score
LATEST	Attempt 1	29 minutes	5 out of 6

① Correct answers will be available on Sep 27 at 11:59am.

Score for this quiz: **5** out of 6 Submitted Sep 25 at 7:04pm This attempt took 29 minutes.

Question 1 1/1 pts

Consider the regular expression (a + b)*a(a + b)*Which of the following string are in this language?

b	
☐ bbb	
✓ a	
☑ ab	
✓ ba	
✓ aaa	

Which of the following is not a regular expression?

a) [(a+b)*-(aa+bb)]*
b) [(o+1)-(ob+a1)*(a+b)]*
c) (o1+11+10)*
d) (1+2+0)*(1+2)*

Question 3 1 / 1 pts

Which one of the following languages over the alphabet $\{0, 1\}$ is described by the regular expression: $(0 + 1)*0(0 + 1)*0(0 + 1)*?$ A. The set of all strings containing exactly two 0's	
B. The set of all strings containing exactly two 0's.C. The set of all strings containing at least two 0's.D. The set of all strings in the alphabet.	
© C□ B	

Question 4	1 / 1 pts	
The set of all strings over the alphabet S = $\{a, b\}$ (including λ) is denoted by		
✓ (b+a)*		
a*(a+b)b*		
a*b*		
(a+b)*		

Question 5

A

O D

1 / 1 pts

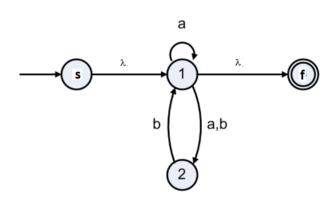
The string 00 belongs to which of the following languages over $\sum = (0,1)$

- A. (01)*0
- B. 01*0*(01)*
- C. (1+0)(1+0)*
- D. 0*1*0*1*
- E. (10)*0
 - A
 - ✓ C
 - ✓ B
 - E
 - ✓ D

Incorrect

Question 6

0 / 1 pts



After deleting node 1, which of the new transitions are correctly calculated.

- A. $new(s,f) = a^*$
- B. new (s,f) = λ

C. new $(s,2) = a^*(a+b)$				
D. new $(s,2) = \lambda + a^*(a+b)$ E. new $(s,2) = a^*(a+b)b$				
				F. new $(2,f) = ba*(a+b)$
G.new (2,f) = ba*				
_ A				
☑ D				
G				
E				
В				
c				
F				

Quiz Score: 5 out of 6