Quiz 11

Due Nov 7 at 11:59pm **Points** 6 **Questions** 6

Available Nov 3 at 11:59pm - Nov 21 at 11:59pm Time Limit 30 Minutes

Instructions

Quiz 11

Attempt History

	Attempt	Time	Score
LATEST	Attempt 1	29 minutes	5.67 out of 6

(!) Correct answers will be available on Nov 15 at 12am.

Score for this quiz: 5.67 out of 6

Submitted Nov 7 at 9:32pm
This attempt took 29 minutes.

Which one of the following are accurate statements.

A. Every NFA can be converted to an equivalent PDA.
B. Every nondeterministic PDA can be converted to an equivalent deterministic c PDA.
C. Every regular grammar is a context-free grammar

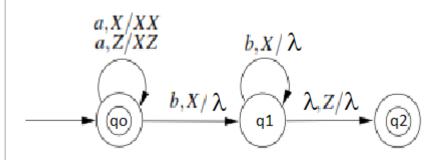
None of A, B, C

A

B

Question 2

1 / 1 pts



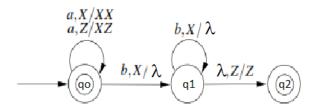
What is the final accepting configuration on the string aabb

- A. q_2, λ, λ
- B. $q2, \lambda, Z$
- C. q1,λ,ZD. q2,Z,Z
 - A
 - ОВ
 - ОС
 - O D

Partial

Question 3

0.67 / 1 pts



What are the strings accepted by this PDA?

- A. λ
- B. aa
- C. ab

	——————————————————————————————————————
D. ba E. bb	
_ A	
✓ B	
_ D	
✓ C	
E	

Question 4	1 / 1 pts

State transition labelled a, b / c means "when machine reads an a from the input and the top symbol of the stack is a b, it may replace the b with c."

What edge label would indicate "Read a 0, don't pop anything from stack, don't push anything to the stack"?

- A. 0, **λ**/0
- B. λ , 0/0
- C. λ, λ/0
- D. 0. λ/λ
 - ОВ
 - O C
 - D
 - A

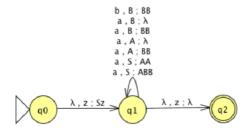
Question 5 1 / 1 pts

Which of the following pairs have DIFFERENT expressive power?

- A Deterministic finite automata(DFA) and Non-deterministic finite automata(NFA)
- B Deterministic push down automata(DPDA)and Non-deterministic push down automata (NPDA)
 - B only
 - None of A or B
 - Both A and B
 - A only

Question 6 1 / 1 pts

Given a NPDA below:



If you write the configuration sequence on input aaa as shown below, give the configuration that is possible for (A) and (B)?

(q0, aaa, Z) (q1, aaa, SZ)

(q1,aa,BBZ)	
(q2,aaa,S)	
(q1,aaa,AAZ)	
(q1,aa, AAZ)	
(q1,aa, AAZ) (q1,aaa,ABBZ)	

Quiz Score: 5.67 out of 6