Quiz 1

Started: Apr 25 at 9:42am

Quiz Instructions

You have 30 minutes to take this quiz. It is open book, however, you may not share the questions/answers of your quiz with anyone else.

Question 1 **4 pts**

Languages are sets of alphabets.

- (•) True
- ( ) False

Question 2 **4 pts**

If w is a string, then $w^0 = \lambda$.

- (•) True
- ( ) False

Question 3 **4 pts**

"The empty set" and "the empty string" are two different names for the same thing.

- ( ) True
- (•) False

Question 4 **4 pts**

A dfa can only have a single final state.

- ( ) True
- (•) False

Question 5 **4 pts**

Every language accepted by an nfa is regular.

- (•) True

- ○ False

Question 6 — 4 pts

A λ-transition can be taken to change states without consuming a symbol from the input string.

- ◉ True
- ○ False

Question 7 — 4 pts

For **any** language accepted by a dfa, there is an nfa that accepts the same language.

- ◉ True
- ○ False

Question 8 — 4 pts

An nfa can be in more than one state at the same time.

- ◉ True
- ○ False

Question 9 — 4 pts

A right-linear grammar can only use a finite set of variables.

- ◉ True
- ○ False

Question 10 — 4 pts

A generalized transition graph is a transition graph whose edges are labeled with regular expressions.

- ◉ True
- ○ False

Question 11 — 4 pts

The regular expression (a + b) represents the union of a and b.

- (●) True
- ( ) False

Question 12 — 4 pts

Right-linear grammars and left-linear grammars are equivalent.

- (●) True
- ( ) False

Quiz saved at 9:48am

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