







utomata Models - Fall Semester - 2021/2022

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My courses

Automata Models - Fall - 2021/2022

General

quiz 1 (21-22)

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Started on Saturday, 20 November 2021, 9:01 PM

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State Finished

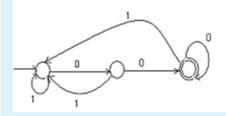
Completed on Saturday, 20 November 2021, 9:12 PM

Time taken 11 mins 52 secs

Grade 7.00 out of 10.00 (70%)

uestion 1 orrect lark 1.00 out of

.00 Flag The DFA shown below accepts the set of all strings over {0, 1} that



Select one:

- a. End with 00 ✓
- b. Contain the substring 00
- c. Begin either with 0 or 1
- d. End with 0

Your answer is correct.

The correct answer is: End with 00

Question 2Mark 1.00 out of 1.00

▼ Flag

Proving techniques includes

- a. By contradiction
- b. By induction
- c. By contrapositive statement
- d. All of the above 🗸

Your answer is correct.

The correct answer is: All of the above

Question 3 Mark 1.00 out of 1.00 ▼ Flag

If L={ab,bb} which is the following strings is NOT L*

Select one:

a. abab



Question **7**Correct
Mark 1.00 out of

Select one:

Flag question

- \bigcirc a. $\{\lambda, \alpha, b\}$
- \bigcirc b. $\{\lambda, a, b, aa, ab, ba, bb, ...\}$
- c. { λ, a, b, aa, aaa, ... }
- od. { a, b, aa, ab, ba, bb, ...}

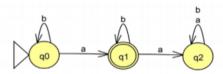
Your answer is correct.

The correct answer is: $\{\lambda, a, b, aa, aaa, ...\}$

Question **8**Correct
Mark 1.00 out of 1.00

Flag question

Select the language defined by the following finite automaton:



Select one:

- $a. \{b^n a b^m a b^p : m, n, p \ge 0\}$
- $b.\{b^nab^ma:m,n\geq 0\}$
- c. {aa}
- \bigcirc d. $\{b^nab^m: m, n \geq 0\}$

Your answer is correct.

The correct answer is: $\{b^nab^m: m, n \geq 0\}$

Question 9
Incorrect

Mark 0.00 out of 1.00

Flag question

The RE for the language $\{w \in \{a,b\}^* : w \text{ conatins at least one } a \text{ is } a(a+b)^*$

Select one:

- True X
- False

The correct answer is 'False'.

Question 10
Incorrect

Mark 0.00 out of 1.00

Flag question

Choose the correct regular expression to describe the language: $\{\lambda, a, b, ab, abb, abbb, abbbb ...\}$

Select one:

- a. a*b*
- o b. (ab)*
- O c. λ + b + ab*
- d. ab* X

Your answer is incorrect.

The correct answer is: λ + b + ab*

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