Quiz 6

Due Oct 3 at 11:59pm **Points** 6 **Questions** 6

Available Sep 29 at 11:59pm - Oct 10 at 11:59pm Time Limit 30 Minutes

Attempt History

| | Attempt | Time | Score |
|--------|-----------|------------|------------|
| LATEST | Attempt 1 | 20 minutes | 6 out of 6 |

Score for this quiz: **6** out of 6 Submitted Oct 2 at 6:26pm This attempt took 20 minutes.

| | Question 1 | 1 / 1 pts | | | |
|----------|---|---|--|--|--|
| | For the grammar G given below, which of the strings are in L(G) | e grammar G given below, which of the strings are in L(G) | | | |
| | S -> A B A -> aA a B -> bB \(\lambda\) | | | | |
| | I. | | | | |
| Correct! | ✓ VII | | | | |
| | □ VI | | | | |
| | | | | | |
| Correct! | ✓ IV | | | | |
| Correct! | ✓ III | | | | |

| | Question 2 | 1 / 1 pts |
|----------|--|-----------|
| | For the grammar G given below, which of the strings are in L(G | 3) |
| | S -> aA \(\lambda \) I. \(\lambda \) II. a III. b IV. aa V. ba VI. ab VII. bb | |
| | | |
| | □ VII | |
| | | |
| Correct! | ☑ [| |
| | | |
| | | |
| Correct! | ✓ VI | |

Which is the classification of the following grammar.

Question 3

1 / 1 pts

```
S -> aA | \lambda A -> Sb
                        I. Linear grammar
II. Right linear grammar
                        III. Left linear grammar IV. Regular grammar V. Not a regular grammar
Correct!
                             V
                             ■ IV
Correct!
                             ✓
```

| | Question 4 | 1 / 1 pts | |
|---------------------------|--|-----------|--|
| | Which is the classification of the following grammar. | | |
| | S -> AB A -> aA a B -> bB λ | | |
| | I. Linear grammar II. Right linear grammar III. Left linear grammar IV. Regular grammar V. Not a regular grammar | | |
| | | | |
| | | | |
| Correct! | ✓ V | | |
| | | | |
| ا tne://caletatela ine | structure.com/courses/80626/auizzes/337323 | | |

1 / 1 pts **Question 5** A language is regular if and only if the language is: I. Accepted by DFA or NFA II. Described by any linear grammar III. Described by a left linear grammar IV. Described by a right linear grammar V.Described by a regular expression Correct! ✓ IV Correct! V Correct! **✓** Correct! **✓** III

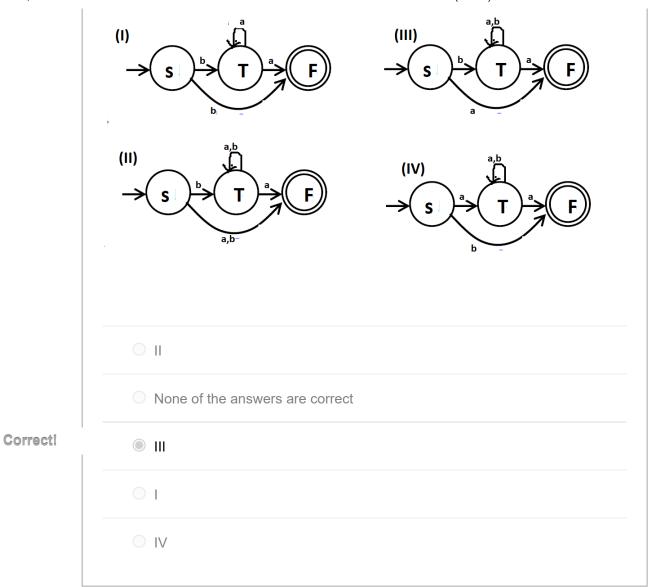
Question 6 1 / 1 pts

Given the production rules:

$$S \longrightarrow bT \mid a$$

$$T \longrightarrow aT \mid bT \mid a$$

Which of the following Finite Automata are equivalent to the above Grammar.



Quiz Score: 6 out of 6