* Test Information Description

Instructions Multiple Attempts

Force Completion

▼ Question Completion Status:

QUESTION 1

 $(1^*0^*)^*$ is equivalent to:

$\bigcirc \|.(0+1)^*$ $\bigcirc |||. (1+0+)^*$ O IV. (10) *

Ol. None

QUESTION 2 $(a+b) (a+\lambda)^* (b+\lambda)^+$ is equivalent to: Ol. None $\bigcirc \parallel . (a+b) a^*b^*$

 $\bigcirc \parallel \parallel \cdot (a+b) \ a^*bb^*$ $\bigcirc \mathsf{IV}.(a+b) \ a^*b^+$

QUESTION 3 The language over the alphabet $\{a, b\}$, consisting of strings of a's and b's of odd length. $\bigcirc \parallel (a+b)(a+b)^*$

○ IV. None

QUESTION 4 \bigcirc 1. $(a+b+c)^*ac(a+b+c)^*$ II. All of the answers

 $\bigcirc \text{III.} (a+b+c)^* a (a+b+c)^* c (a+b+c)$ $\bigcirc \mathsf{IV}.ac\ (a+b+c)^*$

QUESTION 5 \bigcirc |. $b^*ab^*ab^*ab^*(b^*ab^*ab^*ab^*)^*$ ◯ II. None ااال. b * (ab * ab * ab *) * مون نعان ما الله على الله ع $\bigcirc V.b^* + b^*ab^*ab^*ab^*$

QUESTION 7

The regular expression that generates the language in the above DFA is: Ol. None $\bigcirc \parallel . (a+b+c)^* abc (a+b+c)^*$

Not allowed. This test can only be taken once. This test can be saved and resumed later. Your answers are saved automatically.

 $(a+b)(a)^*(b)$

Take Test: HW 2

0.5 points

0.5 points

Save Answer

0.5 points

Save Answer

Save Answer

Save Answer

Save Answer

Save Answer

 $(a+b)((a+b)(a+b))^+$

(a+b) (a+b) (a+b)

The language over $\{a, b, c\}$, that includes ac as a substring. (a+b+c) al (a4b+c)

The language over $\{a, b\}$ that contains a number of a's divisible by 3.

 $\frac{2a\lambda}{2} \qquad (a\lambda a\lambda)$

0.5 points

0.5 points

0.5 points

0.5 points

Save Answer

Save Answer

0.5 points

QUESTION 6 The language generated by the regular expression $(b+c)^*a(b+c)^*(a(b+c)^*a(b+c)^*)$ is: Ol. None

 $\bigcirc \parallel$. $L1 = \{w \in \{a,b,c\}^* : w \text{ contains at least three } a's\}$ $\bigcirc \parallel \parallel L1 = \{w \in \{a,b,c\}^* : w \text{ contains an even number of } a's\}$ $\bigcirc V.L1 = \{w \in \{a,b,c\}^* : w \text{ contains an odd number of } a's\}$

Given the following finite automata:

QUESTION 8

the language? κλ babaa<u>aaa</u> O I. babaaaaa XA babaaaaa xao babagaaa & baaaa ○ II. abaaba O III. abababa O IV. bbbbbb

 \bigcirc III. $(a+b+c)^*$ $\bigcirc \text{IV.} (a+b+c)^* a (a+b+c)^* b (a+b+c)^* c (a+b+c)^*$ Consider the language $(a+b)^*(b+ba+baa)+a+aa+\lambda$; which of the following strings is **NOT** in

Click Save and Submit to save and submit. Click Save All Answers to save all answers.

Save All Answers Save and Submit