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Best of luck!

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CS402 - Theory of Automata (Quiz# 02) **Quiz Start Time: 02:06 PM, 07 June 2023**

Question # 8 of 10 (Start time: 02:11:03 PM, 07 June 2023) **Total Marks:**

There _____ a language for which only FA can be built but not the RE.

Select the correct option

Reload Math Equations

- can be
- may be
- cannot be
- is

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CS402 - Theory of Automata (Quiz# 02)

Quiz Start Time: 02:06 PM, 07 June 2023

Question # 3 of 10 (Start time: 02:08:02 PM, 07 June 2023) **Total Marks:** 1

A string will be accepted by an NFA if there exists _____ one successful path.

Select the correct option

- atmost
- maximum
- none of the given options
- atleast

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CS402 - Theory of Automata (Quiz# 02) **Quiz Start Time: 02:06 PM, 07 June 2023**

Question # 7 of 10 (Start time: 02:10:31 PM, 07 June 2023) **Total Marks:** 1

For every three regular expressions R, S, and T, the languages denoted by R(S U T) and (RS) U (RT) are the _____ .

Select the correct option

- ○ R(S U T) is Greater
- ◉ Same
- ○ None of the given options
- ○ Different

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CS402 - Theory of Automata (Quiz# 02) **Quiz Start Time: 02:06 PM, 07 June 2023**

Question # 2 of 10 (Start time: 02:07:36 PM, 07 June 2023) **Total Marks:** 1

In NFA having no transition at certain state, FA can be built by introducing:

Select the correct option

- ○ Final state
- ○ Combination of states
- ○ Initial state
- ◉ Empty state

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CS402 - Theory of Automata (Quiz# 02) **Quiz Start Time: 02:06 PM, 07 June 2023**

Question # 4 of 10 (Start time: 02:08:46 PM, 07 June 2023) **Total Marks:** 1

Let FA3 be an FA corresponding to FA1FA2, then the final state of FA3 must correspond to the final state of

Select the correct option

- ○ FA1 and FA2
- ○ FA2 only
- ◉ FA1 or FA2
- ○ FA1 only

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CS402 - Theory of Automata (Quiz# 02) **Quiz Start Time: 02:06 PM, 07 June 2023**

Question # 1 of 10 (Start time: 02:06:41 PM, 07 June 2023) **Total Marks:** 1

In NFA,if null word (lambda) is allowed to be a label of an edge, then that NFA is called _____.

Select the correct option

- ○ NFA with two strings
- ◉ NFA with null string
- ○ NFA without null string
- ○ NFA with one string

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CS402 - Theory of Automata (Quiz# 02) **Quiz Start Time: 03:59 PM, 07 June 2023**

Question # 10 of 10 (Start time: 04:02:41 PM, 07 June 2023) **Total Marks:** 1

In order to make NFA for the union of FA1 and FA2, the new initial state should be linked to:

Select the correct option

- initial state of FA1 only
- initial states of both FAs
- final and initial states of FA1 and FA2 respectively
- initial and final states of FA1 and FA2 respectively

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CS402 - Theory of Automata (Quiz# 02) **Quiz Start Time: 02:06 PM, 07 June 2023**

Question # 5 of 10 (Start time: 02:09:23 PM, 07 June 2023) **Total Marks:** 1

Let FA1 accepts many strings and FA2 accepts no string, then FA1+FA2 will be equal to:

Select the correct option

- (FA2)*
- FA2-FA1
- FA1
- FA2

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CS402 - Theory of Automata (Quiz# 02) **Quiz Start Time: 03:59 PM, 07 June 2023**

Question # 9 of 10 (Start time: 04:02:02 PM, 07 June 2023) **Total Marks:** 1

FA corresponding to an NFA can be built by introducing an empty state for a letter having

Select the correct option

- (●) no transition at certain state
- ( ) one transition at certain state
- ( ) two transitions at certain state
- ( ) more than two transitions at certain state

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