



03063548328 Sonu Ilyas Mughal

CS402 - Theory of Automata



Grand Quiz 2020 (Covid-19)

100% Correct Solve (Alhamdulillah)

BY Virtual Assistance Sonu Ilyas Mughal



Sindh, Pakistan



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CS402:Grand Quiz

Quiz Start Time: 02:41 PM,

Question # 1 of 30 (Start time: 02:41:34 PM, 30 December 2020)

The minimum length of the strings(except null string) of a language that starts and ends in the same letters will be:

Select the correct option

- | | | |
|----------------------------------|---|-------------------|
| <input checked="" type="radio"/> | 1 | Sonu Ilyas Mughal |
| <input type="radio"/> | 2 | |
| <input type="radio"/> | 3 | |
| <input type="radio"/> | 4 | |



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Question # 2 of 30 (Start time: 02:42:08 PM, 30 December 2020)

If $S = \{ab, bb\}$ then S^* will not contain _____.

Select the correct option

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- | | |
|----------------------------------|--------|
| <input type="radio"/> | abbbab |
| <input checked="" type="radio"/> | bbba |
| <input type="radio"/> | bbbbab |
| <input type="radio"/> | ababbb |



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Quiz Start T

Question # 3 of 30 (Start time: 02:42:31 PM, 30 December 2020)

Which of the following machine has only one initial state and no final state?

Select the correct option

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- | | |
|----------------------------------|--|
| <input checked="" type="radio"/> | Moore machine |
| <input type="radio"/> | Finite state machine |
| <input type="radio"/> | Deterministic finite state machine |
| <input type="radio"/> | Non deterministic finite state machine |



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Qui:

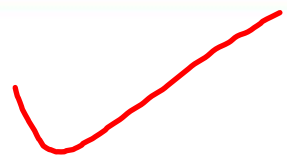
Question # 4 of 30 (Start time: 02:42:57 PM, 30 December 2020)

Which of the following diagram is very rigid in order to express any language?

Select the correct option

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<input type="radio"/>	TG
<input type="radio"/>	NFA-^
<input type="radio"/>	GTG
<input checked="" type="radio"/>	FA





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CS402:Grand Quiz

Quiz Start Time: 0

Question # 5 of 30 (Start time: 02:43:22 PM, 30 December 2020)

If $S = \{a\}$, then S^+ will be _____.

Select the correct option

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- | | |
|----------------------------------|---------------------------------------|
| <input type="radio"/> | $\{a, aaa, aaaa, aaaaa, \dots\}$ |
| <input checked="" type="radio"/> | $\{a, aa, aaa, aaaa, \dots\}$ |
| <input type="radio"/> | $\{a, aaa, aaaaa, aaaaaaa, \dots\}$ |
| <input type="radio"/> | $\{aa, aaaa, aaaaa, aaaaaaa, \dots\}$ |

Click to Save Answer &



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Quiz Start Time: 02:41 PM, 30 December 2020

Question # 6 of 30 (Start time: 02:43:46 PM, 30 December 2020)

Total Marks: 1

Let L be the language of all strings, defined over $\Sigma = \{0,1\}$, ending in 111. Which of the following strings are indistinguishable with respect to L with z being 11?

Select the correct option

<input checked="" type="radio"/>	111, 101	✓	Sonu Ilyas Mughal	//
<input type="radio"/>	100, 101			//
<input type="radio"/>	110, 101			//
<input type="radio"/>	010, 101			//

Click to Save Answer & Move to Next Question



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Quiz Start Time: 02

Question # 7 of 30 (Start time: 02:44:08 PM, 30 December 2020)

Melay machine can have ----- final states.

Select the correct option

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<input checked="" type="radio"/>	Zero
<input type="radio"/>	One
<input type="radio"/>	More than one but finite
<input type="radio"/>	More than one but infinite



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Question # 8 of 30 (**Start time: 02:44:28 PM, 30 December 2020**)

In Moore machine, output is produced over the change of:

Select the correct option

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<input type="radio"/>	Transitions
<input checked="" type="radio"/>	States
<input type="radio"/>	Transitions and states
<input type="radio"/>	None of the mentioned



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Quiz Start Time: 02:41 PM

Question # 9 of 30 (Start time: 02:44:48 PM, 30 December 2020)

Given the language $L = \{ab, aa, baa\}$, which of the following strings are in L^* ?

- 1) abaabaaabaa
- 2) aaaabaaaa
- 3) baaaaabaaaab
- 4) baaaaabaa

Select the correct option

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<input type="radio"/>	1, 2 and 3
<input type="radio"/>	2, 3 and 4
<input checked="" type="radio"/>	1, 2 and 4
<input type="radio"/>	1, 3 and 4

Click to Save Answer & Move



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Quiz Start Time: 02:41 PM, 30 December 2020

Question # 10 of 30 (Start time: 02:45:16 PM, 30 December 2020)

Total Marks: 1

Let L be the language of all strings, defined over $\Sigma = \{0,1\}$, ending in 10. Which of the following strings are distinguishable with respect to L with z being 0?

Select the correct option

<input type="radio"/>	111, 101	Sonu Ilyas Mughal
<input type="radio"/>	001, 101	
<input type="radio"/>	111, 111	
<input checked="" type="radio"/>	010, 101	

Click to Save Answer & Move to Next Question



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CS402:Grand Quiz

Quiz Start Time: 02:41 PM, 30 December 2020

Question # 11 of 30 (Start time: 02:45:42 PM, 30 December 2020)

Total Marks: 1

Let's we have two regular expressions $R1=(xx+yy)$ and $R2=(x+y)$. Which one of the following is the correct regular expression for the Union of $R1$ and $R2$?

Select the correct option

- | | | |
|----------------------------------|---------------------|-------------------|
| <input type="radio"/> | $(xx+yy)(x+y)$ | Sonu Ilyas Mughal |
| <input type="radio"/> | $(xx+yy)+(x+y)^*$ | |
| <input checked="" type="radio"/> | $(xx+yy)+(x+y)$ | |
| <input type="radio"/> | $((xx+yy)+(x+y))^*$ | |

Click to Save Answer & Move to Next Question



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Quiz Start Time: 02:41 PM, 30 Dec

Question # 12 of 30 (Start time: 02:46:06 PM, 30 December 2020)

To

FA corresponding to an NFA can be built by introducing a state corresponding to the combination of states, for a letter having

Select the correct option

<input checked="" type="radio"/>	no transition at certain state	Sonu Ilyas Mughal
<input type="radio"/>	one transition at certain state	
<input type="radio"/>	more than one transitions at certain state	
<input type="radio"/>	none of the given options	



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Quiz Start Time

Question # 13 of 30 (Start time: 02:46:30 PM, 30 December 2020)

The state where there is no way to leave after entry is called _____.

Select the correct option

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- | | |
|----------------------------------|-------------------|
| <input checked="" type="radio"/> | Davey John locker |
| <input type="radio"/> | initial state |
| <input type="radio"/> | final state |
| <input type="radio"/> | non-final state |



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Question # 14 of 30 (Start time: 02:46:57 PM, 30 December 2020)

Which one of the following word is not accepted by the given regular expression?
aa(a+b)*b

Select the correct option

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- | | |
|----------------------------------|----------|
| <input type="radio"/> | aaabab |
| <input type="radio"/> | aaaababb |
| <input checked="" type="radio"/> | abbaab |
| <input type="radio"/> | aabbabb |



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Quiz Start Time: 0

Question # 15 of 30 (Start time: 02:47:17 PM, 30 December 2020)

The minimum length of the strings(except null string) of a language that starts and ends in different letters will be:

Select the correct option

- | | | |
|----------------------------------|---|-------------------|
| <input type="radio"/> | 1 | Sonu Ilyas Mughal |
| <input checked="" type="radio"/> | 2 | |
| <input type="radio"/> | 3 | |
| <input type="radio"/> | 4 | |

Click to Save Answer &



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Question # 16 of 30 (Start time: 02:47:41 PM, 30 December 2020)

According to theory of automata there are _____ types of languages.

Select the correct option

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<input type="radio"/>	One
<input checked="" type="radio"/>	Two
<input type="radio"/>	Three
<input type="radio"/>	Four



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Question # 17 of 30 (Start time: 02:48:19 PM, 30 December 2020)

Which one of the following word is not accepted by the given regular expression?
 $(a+b)^*(aaa+bbb)(a+b)^*$

Select the correct option

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<input type="radio"/>	ababaaaab
<input type="radio"/>	bababbbba
<input checked="" type="radio"/>	baabaabba
<input type="radio"/>	abbaaabba



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Quiz Start Time

Question # 18 of 30 (Start time: 02:48:46 PM, 30 December 2020)

Regular languages are closed under the following operations.

Select the correct option

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- | | |
|----------------------------------|---|
| <input type="radio"/> | Union only |
| <input type="radio"/> | Concatenation, Closure only |
| <input checked="" type="radio"/> | Union, Concatenation and Closure |
| <input type="radio"/> | Regular languages are not closed under any operation. |



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Quiz Start Time

Question # 19 of 30 (Start time: 02:49:10 PM, 30 December 2020)

If $S = \{x\}$, then S^* will be _____.

Select the correct option

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- | | |
|----------------------------------|--|
| <input type="radio"/> | $\{\hat{\ }^,x,xxx,xxxx,xxxxx,\dots\}$ |
| <input checked="" type="radio"/> | $\{\hat{\ }^,x,xx,xxx,xxxx,\dots\}$ |
| <input type="radio"/> | $\{\hat{\ }^,x,xxx,xxxxx,xxxxxxx,\dots\}$ |
| <input type="radio"/> | $\{\hat{\ }^,xx,xxxx,xxxxxx,xxxxxxx,\dots\}$ |



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Quiz Start Time: 02:41 PM

Question # 20 of 30 (Start time: 02:49:33 PM, 30 December 2020)

There can be more than _____ FA for a certain language but for _____ FA there is only one language associated with it.

Select the correct option

- | | |
|----------------------------------|------------|
| <input checked="" type="radio"/> | one, one |
| <input type="radio"/> | one, two |
| <input type="radio"/> | two, three |
| <input type="radio"/> | two, one |

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Quiz Start Time: 02

Question # 21 of 30 (Start time: 02:49:56 PM, 30 December 2020)

There is no compulsion that each state must have an on outgoing edge for every input variable in:

Select the correct option

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<input type="radio"/>	Finite Automata
<input checked="" type="radio"/>	Transition Graph
<input type="radio"/>	Both Finite Automata and Transition Graph
<input type="radio"/>	Transition Table

Click to Save Answer &



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Quiz Start Time:

Question # 22 of 30 (Start time: 02:50:19 PM, 30 December 2020)

FA is also called

Select the correct option

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- | | |
|----------------------------------|-----|
| <input type="radio"/> | TG |
| <input type="radio"/> | GTG |
| <input type="radio"/> | NFA |
| <input checked="" type="radio"/> | DFA |



Click to Save Answer



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Quiz Start Time: 02:41 F

Question # 23 of 30 (Start time: 02:50:44 PM, 30 December 2020)

In the context of make NFA for the concatenation of FA1 and FA2 (Both FAs accepting null string), which of the following option is correct?

Select the correct option

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- | | |
|----------------------------------|-------------------------------|
| <input checked="" type="radio"/> | Final states in both FAs |
| <input type="radio"/> | Initial states in both FAs |
| <input type="radio"/> | FA2 having initial state only |
| <input type="radio"/> | FA2 having final state only |

Click to Save Answer & Move



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Question # 24 of 30 (Start time: 02:51:06 PM, 30 December 2020)

If r_1 and r_2 are regular expressions then $(r_1 * r_2)$ is _____ .

Select the correct option

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<input type="radio"/>	FA
<input type="radio"/>	TG
<input type="radio"/>	GTG
<input checked="" type="radio"/>	RE



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Quiz Start Time: 02:41 PM, 30 Decem

Question # 25 of 30 (Start time: 02:51:35 PM, 30 December 2020)

Total

Which of the following is the minimal number of states for a finite automaton accepting the language of all strings defined over any alphabet set?

Select the correct option

<input checked="" type="radio"/>	1	Sonu Ilyas Mughal
<input type="radio"/>	2	
<input type="radio"/>	3	
<input type="radio"/>	4	

Click to Save Answer & Move to Next Que



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Quiz Start Time: 02:41 PM, 30 December 20

Question # 26 of 30 (Start time: 02:52:00 PM, 30 December 2020)

Total Marks

Keeping in view the language of all strings ending with 'a', for which symbol we will take a loop on the final state of its transition diagram?

Select the correct option

<input checked="" type="radio"/>	a	✓	• Sonu Ilyas Mughal	//
<input type="radio"/>	b			//
<input type="radio"/>	c			//
<input type="radio"/>	d			//

Click to Save Answer & Move to Next Question



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Quiz 5

Question # 27 of 30 (Start time: 02:52:33 PM, 30 December 2020)

Which of the following statements is true about NFA with Null String?

Select the correct option

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- | | |
|----------------------------------|---|
| <input type="radio"/> | Infinite states |
| <input type="radio"/> | Infinite set of letters |
| <input type="radio"/> | Infinite set of transitions |
| <input checked="" type="radio"/> | Transition of null string is allowed at any stage |



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Quiz Start Time

Question # 28 of 30 (Start time: 02:52:55 PM, 30 December 2020)

Introducing new start state in case of multiple start states is the step no. _____ of proving Kleene's theorem part II.

Select the correct option

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- | | |
|----------------------------------|---|
| <input checked="" type="radio"/> | 1 |
| <input type="radio"/> | 2 |
| <input type="radio"/> | 3 |
| <input type="radio"/> | 4 |



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Quiz Start

Question # 29 of 30 (Start time: 02:53:15 PM, 30 December 2020)

Which of the following diagrams expresses languages more simply?

Select the correct option

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- | | |
|----------------------------------|-----|
| <input type="radio"/> | FA |
| <input type="radio"/> | NFA |
| <input type="radio"/> | TG |
| <input checked="" type="radio"/> | GTG |

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Quiz Start

Question # 30 of 30 (Start time: 02:53:38 PM, 30 December 2020)

The language of all strings defined over alphabet set = {a, b} that does not end with 'a' actually ends with:

Select the correct option

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- | | |
|----------------------------------|---------|
| <input type="radio"/> | b |
| <input checked="" type="radio"/> | b and ^ |
| <input type="radio"/> | ^ |
| <input type="radio"/> | ^ and a |
- NO SURE



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Quiz Start Time: 03:32 PM, 30 Decem

Question # 1 of 30 (Start time: 03:32:21 PM, 30 December 2020)

Tota

Let L be the language of all strings, defined over $\Sigma = \{0, 1\}$, ending in 10. Which of the following strings are indistinguishable with respect to L with z being 0?

Select the correct option

<input type="radio"/>	100, 101
<input checked="" type="radio"/>	111, 101
<input type="radio"/>	110, 101
<input type="radio"/>	010, 101

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Click to Save Answer & Move to Next Qu



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Quiz Start

Question # 2 of 30 (Start time: 03:32:48 PM, 30 December 2020)

Let $S = \{aa, bb\}$, then S^* will have the _____ string.

Select the correct option

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- | | |
|----------------------------------|-----------|
| <input checked="" type="radio"/> | Λ |
| <input type="radio"/> | abba |
| <input type="radio"/> | aabbbaa |
| <input type="radio"/> | bbaab |

Click to Save An



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Quiz Start Ti

Question # 3 of 30 (**Start time: 03:33:09 PM, 30 December 2020**)

The minimum length of the strings(except null string) of a language that starts and ends in the same letters will be:

Select the correct option

- | | | |
|----------------------------------|---|-------------------|
| <input checked="" type="radio"/> | 1 | Sonu Ilyas Mughal |
| <input type="radio"/> | 2 | |
| <input type="radio"/> | 3 | |
| <input type="radio"/> | 4 | |

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Quiz Start Time: 03:33:32 PM, 30 December 2020

Question # 4 of 30 (Start time: 03:33:32 PM, 30 December 2020)

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

Select the correct option

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<input checked="" type="radio"/>	Empty state
<input type="radio"/>	Combination of states
<input type="radio"/>	Initial state
<input type="radio"/>	Final state



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Quiz Start Tim

Question # 5 of 30 (Start time: 03:33:55 PM, 30 December 2020)

Formal is also known as _____.

Select the correct option

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- | | |
|----------------------------------|--------------------|
| <input checked="" type="radio"/> | Syntactic language |
| <input type="radio"/> | Semantic language |
| <input type="radio"/> | Informal language |
| <input type="radio"/> | None of these |



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Quiz Start Time: 03:3

Question # 6 of 30 (Start time: 03:34:18 PM, 30 December 2020)

There may be more than one transition for a certain letter on a state in:

Select the correct option

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- | | |
|----------------------------------|-----------------------------------|
| <input type="radio"/> | Finite Automata |
| <input checked="" type="radio"/> | Non-Deterministic Finite Automata |
| <input type="radio"/> | Transition Table |
| <input type="radio"/> | Moore Machine |

Click to Save Answer & M



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Quiz Start Time: 03:32 I

Question # 7 of 30 (Start time: 03:34:43 PM, 30 December 2020)

A loop at a state is supposed to be ----- transition while converting Moore machine into an equivalent Melay machine.

Select the correct option

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<input checked="" type="radio"/>	Incoming
<input type="radio"/>	Outgoing
<input type="radio"/>	Both incoming and outgoing
<input type="radio"/>	Complex

Click to Save Answer & Move



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Quiz Start Time

Question # 8 of 30 (Start time: 03:35:09 PM, 30 December 2020)

FA corresponding to an NFA can be built by introducing a state corresponding to the combination of states, for a letter having

Select the correct option

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- | | |
|----------------------------------|--|
| <input checked="" type="radio"/> | no transition at certain state |
| <input type="radio"/> | one transition at certain state |
| <input type="radio"/> | more than one transitions at certain state |
| <input type="radio"/> | none of the given options |



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Quiz Start Time: 03:32 PM, 30 December 2020

Question # 9 of 30 (Start time: 03:35:35 PM, 30 December 2020)

Total Marks: 2

FA of EVEN language shows null string when _____.

Select the correct option

- | | |
|----------------------------------|--------------------------------|
| <input checked="" type="radio"/> | Initial state is final as well |
| <input type="radio"/> | EVEN does not accept null |
| <input type="radio"/> | One state is declared null |
| <input type="radio"/> | None of the these |

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Click to Save Answer & Move to Next Question



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Quiz Start 1

Question # 10 of 30 (Start time: 03:36:00 PM, 30 December 2020)

Which of the following statement is true about GTG?

Select the correct option

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- Transitions are based on input letters
- Transitions are based on specified substrings
- Transitions are based on regular expressions
- Transitions are based on alphabet set



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Quiz Start

Question # 11 of 30 (Start time: 03:36:23 PM, 30 December 2020)

Which of the following machine has only one initial state and no final state?

Select the correct option

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- | | |
|-------------------------------------|--|
| <input checked="" type="checkbox"/> | Moore machine |
| <input type="checkbox"/> | Finite state machine |
| <input type="checkbox"/> | Deterministic finite state machine |
| <input type="checkbox"/> | Non deterministic finite state machine |

Click to Save A



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CS402:Grand Quiz

Quiz Start Time: 03:32 PM, 30 December 2020

Question # 12 of 30 (Start time: 03:36:53 PM, 30 December 2020)

Total Marks: 1

Which one of the following machine is represented as a pictorial representation with states and directed edges labeled by an input letter along with an output character?

Select the correct option

- | | | |
|----------------------------------|------------------------------------|-------------------|
| <input type="radio"/> | Moore machine | Sonu Ilyas Mughal |
| <input checked="" type="radio"/> | Mealy machine | |
| <input type="radio"/> | Finite state machine | |
| <input type="radio"/> | Deterministic finite state machine | |

Click to Save Answer & Move to Next Question



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Quiz Start Tir

Question # 13 of 30 (Start time: 03:37:18 PM, 30 December 2020)

In GTG, there can be more than one:

Select the correct option

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- | | |
|----------------------------------|-----------------------------|
| <input type="radio"/> | start state |
| <input type="radio"/> | final state |
| <input checked="" type="radio"/> | start state and final state |
| <input type="radio"/> | null state |



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Quiz Start Time:

Question # 14 of 30 (Start time: 03:38:05 PM, 30 December 2020)

GTG for the expression $(aa+aba)^*$ may have minimum number of states:

Select the correct option

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- | | |
|----------------------------------|---|
| <input checked="" type="radio"/> | 1 |
| <input type="radio"/> | 2 |
| <input type="radio"/> | 3 |
| <input type="radio"/> | 4 |



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Quiz Start Time: 03:32 PM

Question # 15 of 30 (Start time: 03:38:29 PM, 30 December 2020)

In regular expressions, the operator '*' stands for

Select the correct option

- | | |
|----------------------------------|---------------|
| <input type="radio"/> | Concatenation |
| <input checked="" type="radio"/> | Iteration |
| <input type="radio"/> | Selection |
| <input type="radio"/> | Addition |

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Click to Save Answer & Move



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Qu

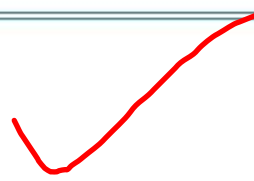
Question # 16 of 30 (Start time: 03:38:49 PM, 30 December 2020)

If we have only one state, having no transition for input letters, then it is an example of:

Select the correct option

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<input type="radio"/>	RE
<input type="radio"/>	FA
<input type="radio"/>	TG
<input checked="" type="radio"/>	NFA





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CS402:Grand Quiz

Quiz Start Time: 03:

Question # 17 of 30 (Start time: 03:39:13 PM, 30 December 2020)

If A and B are regular languages, $!(A \cup B)$ is:

Select the correct option

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<input checked="" type="radio"/>	regular
<input type="radio"/>	non regular
<input type="radio"/>	may be regular
<input type="radio"/>	none of the mentioned



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Quiz Start Time

Question # 18 of 30 (Start time: 03:39:39 PM, 30 December 2020)

A _____ with "n" states must accept at least one string of length greater than "n".

Select the correct option

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<input checked="" type="radio"/>	DFA
<input type="radio"/>	RE
<input type="radio"/>	Irregular language
<input type="radio"/>	Irrelevant language



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Quiz Start Time: 03:32 PM

Question # 19 of 30 (Start time: 03:40:01 PM, 30 December 2020)

If $r1$ is a regular expression then $(r1)^*$ is _____.

Select the correct option

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a generalized transition graph



a non-deterministic finite automaton



a finite automaton



also a regular expression



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Quiz Start Time: 03:32 PM

Question # 20 of 30 (Start time: 03:40:24 PM, 30 December 2020)

Which of the following is the bypass and state elimination step in the context of Kleene's theorem part II proof?

Select the correct option

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- | | |
|----------------------------------|---|
| <input type="radio"/> | 1 |
| <input type="radio"/> | 2 |
| <input type="radio"/> | 3 |
| <input checked="" type="radio"/> | 4 |

Click to Save Answer & Move



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CS402:Grand Quiz

Quiz Start T

Question # 21 of 30 (Start time: 03:40:46 PM, 30 December 2020)

Every _____ is a _____ as well, but the converse may not be true.

Select the correct option

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<input type="radio"/>	TG, FA
<input checked="" type="radio"/>	FA, TG
<input type="radio"/>	TG, GTG
<input type="radio"/>	FA,GTG

Click to Save Ans



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CS402:Grand Quiz

Quiz Start Time: 03

Question # 22 of 30 (Start time: 03:41:08 PM, 30 December 2020)

Which of the following is free of non-determinism?

Select the correct option

Sonu Ilyas Mughal

- | | |
|----------------------------------|-------------------|
| <input type="radio"/> | TG |
| <input checked="" type="radio"/> | FA |
| <input type="radio"/> | NFA |
| <input type="radio"/> | NFA- [^] |

Click to Save Answer &



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Quiz

Question # 23 of 30 (Start time: 03:41:30 PM, 30 December 2020)

There is no question of accepting any language in:

Select the correct option

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<input type="radio"/>	FA
<input type="radio"/>	TG
<input type="radio"/>	GTG
<input checked="" type="radio"/>	Moore machine



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Quiz Start Time: 03:3

Question # 24 of 30 (Start time: 03:41:50 PM, 30 December 2020)

The state where there is no way to leave after entry is called _____.

Select the correct option

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- | | |
|----------------------------------|-------------------|
| <input checked="" type="radio"/> | Davey John locker |
| <input type="radio"/> | initial state |
| <input type="radio"/> | final state |
| <input type="radio"/> | non-final state |

Click to Save Answer & M



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CS402:Grand Quiz

Quiz Start Time: 0

Question # 25 of 30 (Start time: 03:42:13 PM, 30 December 2020)

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

Select the correct option

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<input checked="" type="radio"/>	atleast
<input type="radio"/>	atmost
<input type="radio"/>	maximum
<input type="radio"/>	none of the given options



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Quiz Start Ti

Question # 26 of 30 (Start time: 03:42:36 PM, 30 December 2020)

Melay machine to increase the output string in magnitude by 1 is called:

Select the correct option

Sonu Ilyas Mughal

- | | |
|----------------------------------|-----------------------|
| <input type="radio"/> | Complementing machine |
| <input checked="" type="radio"/> | Incrementing machine |
| <input type="radio"/> | Decrementing machine |
| <input type="radio"/> | Converting machine |



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Quiz Start Time: 0

Question # 27 of 30 (Start time: 03:43:02 PM, 30 December 2020)

Kleene's Theorem Part I expresses the relationship between _____.

Select the correct option

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- | | |
|----------------------------------|-----------|
| <input checked="" type="radio"/> | FA and TG |
| <input type="radio"/> | TG and RE |
| <input type="radio"/> | RE and FA |
| <input type="radio"/> | FA and RE |

Click to Save Answer &



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Quiz Start Time: 03:32 PM, 30 December 2020

Question # 28 of 30 (Start time: 03:43:27 PM, 30 December 2020)

Total Marks: 1

Keeping in view the discussion by Martin, how many states are required to recognize the language of all strings of length 2 or more defined over $\Sigma = \{a,b\}$, with 'b' being the second letter from right?

Select the correct option

- | | | | |
|----------------------------------|---|--|-------------------|
| <input type="radio"/> | 6 | | |
| <input checked="" type="radio"/> | 7 | | Sonu Ilyas Mughal |
| <input type="radio"/> | 8 | | |
| <input type="radio"/> | 9 | | |

Click to Save Answer & Move to Next Question



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CS402:Grand Quiz

Quiz Start Time: 03:32 PM, 30 D

Question # 29 of 30 (Start time: 03:43:48 PM, 30 December 2020)

Suppose we have FA3 (which is equal to FA1 + FA2), then the final state of FA3 will be declared final if:

Select the correct option

- | | |
|----------------------------------|---|
| <input type="radio"/> | It corresponds to final states of both FA1 and FA2 |
| <input type="radio"/> | It corresponds to final states of FA1 only |
| <input type="radio"/> | It corresponds to final states of FA2 only |
| <input checked="" type="radio"/> | It corresponds to any of the final states in FA1 or FA2 |

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Not Sir

Click to Save Answer & Move to Next



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Quiz Start Time: 03:32 PM, 30 Decem

Question # 30 of 30 (Start time: 03:44:12 PM, 30 December 2020)

Tota

FA and _____ are same except that _____ has unique symbol for each transition.

Select the correct option

<input type="radio"/>	FA,TG
<input type="radio"/>	NFA,TG
<input checked="" type="radio"/>	NFA,FA
<input type="radio"/>	GTG,NFA

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Question # 1 of 30 (**Start time: 05:02:00 AM, 30 December 2020**)

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

Select the correct option

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<input checked="" type="radio"/>	Empty state
<input type="radio"/>	Combination of states
<input type="radio"/>	Initial state
<input type="radio"/>	Final state



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Quiz Start

Question # 2 of 30 (Start time: 05:02:26 AM, 30 December 2020)

Subtraction of binary numbers is possible through:

Select the correct option

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- | | |
|----------------------------------|---|
| <input type="radio"/> | Complementing machine |
| <input type="radio"/> | Incrementing machine |
| <input checked="" type="radio"/> | Both complementing and incrementing machine |
| <input type="radio"/> | Converting machine |



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Quiz Start T

Question # 3 of 30 (Start time: 05:02:49 AM, 30 December 2020)

Null strings can be specified on edges in:

Select the correct option

Sonu Ilyas Mughal

- | | |
|----------------------------------|-----------------------------------|
| <input type="radio"/> | Finite Automata |
| <input type="radio"/> | Non-Deterministic Finite Automata |
| <input checked="" type="radio"/> | Transition Graph |
| <input type="radio"/> | Melay Machine |



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Q

Question # 4 of 30 (Start time: 05:03:14 AM, 30 December 2020)

Kleene's Theorem Part I expresses the relationship between _____.

Select the correct option

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- | | |
|----------------------------------|-----------|
| <input checked="" type="radio"/> | FA and TG |
| <input type="radio"/> | TG and RE |
| <input type="radio"/> | RE and FA |
| <input type="radio"/> | FA and RE |



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Question # 5 of 30 (Start time: 05:03:37 AM, 30 December 2020)

What is false about the PALINDROME LANGUAGE?

Select the correct option

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- | | |
|----------------------------------|----------------------------------|
| <input type="radio"/> | Every word is reverse of itself. |
| <input type="radio"/> | It is an infinite language. |
| <input checked="" type="radio"/> | FA can be build for it. |
| <input type="radio"/> | None of the given option |



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Quiz Start Tin

Question # 6 of 30 (Start time: 05:04:03 AM, 30 December 2020)

While finding RE corresponding to TG, If TG has more than one start state then

Select the correct option

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- | | |
|----------------------------------|--|
| <input checked="" type="radio"/> | Introduce the new start state |
| <input type="radio"/> | Eliminate the old start state |
| <input type="radio"/> | Replace the old start state with final state |
| <input type="radio"/> | Replace the old final state with new start state |



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Quiz St

Question # 7 of 30 (Start time: 05:04:25 AM, 30 December 2020)

All possible combinations of strings of a language including null string is referred as:

Select the correct option

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- | | |
|----------------------------------|--|
| <input type="radio"/> | Concatenation of a language with itself |
| <input checked="" type="radio"/> | Kleene star closure of a language |
| <input type="radio"/> | Multiplication of a language with itself |
| <input type="radio"/> | Addition of a language with itself |



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Question # 8 of 30 (Start time: 05:04:52 AM, 30 December 2020)

$n!$ will be equal to:

Select the correct option

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- | | |
|----------------------------------|------------|
| <input type="radio"/> | $n*n$ |
| <input type="radio"/> | $n*(n-n)!$ |
| <input type="radio"/> | $n*(n-1)$ |
| <input checked="" type="radio"/> | $n*(n-1)!$ |



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Quiz Start

Question # 9 of 30 (Start time: 05:05:35 AM, 30 December 2020)

Every NFA can be considered to be a ----- as well, but the converse may not be true.

Select the correct option

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- | | |
|----------------------------------|-----|
| <input type="radio"/> | FA |
| <input checked="" type="radio"/> | TG |
| <input type="radio"/> | GTG |
| <input type="radio"/> | PDA |



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Quiz Start Time: 05:02 AM

Question # 10 of 30 (Start time: 05:06:19 AM, 30 December 2020)

While finding RE corresponding to a TG, we connect the new start state with the old start state by _____ transition.

Select the correct option

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<input type="radio"/>	a
<input type="radio"/>	b
<input checked="" type="radio"/>	null
<input type="radio"/>	RE

Click to Save Answer & Move t



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Quiz Start Time: 05:02 AM, 30 Dec

Question # 11 of 30 (Start time: 05:06:39 AM, 30 December 2020)

To

In proving Kleene Theorem II, if three states are connected then middle state is removed by connecting first and third state and writing corresponding RE in:

Select the correct option

<input type="radio"/>	Sum
<input checked="" type="radio"/>	Concatenation
<input type="radio"/>	Difference
<input type="radio"/>	Asterisk

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Quiz St

Question # 12 of 30 (Start time: 05:07:16 AM, 30 December 2020)

In _____ there must be transition for all the letters of a string.

Select the correct option

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<input type="radio"/>	NFA
<input type="radio"/>	GTG
<input type="radio"/>	TG
<input checked="" type="radio"/>	FA



Click to Save



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Question # 13 of 30 (Start time: 05:07:45 AM, 30 December 2020)

There is no question of accepting any language in:

Select the correct option

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<input type="radio"/>	FA
<input type="radio"/>	TG
<input type="radio"/>	GTG
<input checked="" type="radio"/>	Moore machine





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Quiz Start 1

Question # 14 of 30 (Start time: 05:08:07 AM, 30 December 2020)

For a given Moore Machine, the input string is '101010', thus the output string would be of length:

Select the correct option

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- | | |
|----------------------------------|----------------------------|
| <input checked="" type="radio"/> | Length of input string + 1 |
| <input type="radio"/> | Length of input string - 1 |
| <input type="radio"/> | Length of input string + 2 |
| <input type="radio"/> | Length of input string - 2 |



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Quiz Start Time: 05:02 AM,

Question # 15 of 30 (Start time: 05:08:26 AM, 30 December 2020)

The FA can be drawn for the regular expression $(a+b)^*$ with minimum _____ state(s).

Select the correct option

- | | | |
|----------------------------------|---|-------------------|
| <input checked="" type="radio"/> | 1 | Sonu Ilyas Mughal |
| <input type="radio"/> | 2 | |
| <input type="radio"/> | 3 | |
| <input type="radio"/> | 4 | |

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Quiz

Question # 16 of 30 (Start time: 05:08:47 AM, 30 December 2020)

Which of the following does not contribute while finding out the length of strings?

Select the correct option

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- | | |
|----------------------------------|----------|
| <input checked="" type="radio"/> | \wedge |
| <input type="radio"/> | a |
| <input type="radio"/> | b |
| <input type="radio"/> | a+b |



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Quiz Start Time: 05:02 A

Question # 17 of 30 (Start time: 05:09:08 AM, 30 December 2020)

The language of all strings defined over alphabet set = {x, y} that ends with same letters will have the maximum length of:

Select the correct option

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<input type="radio"/>	1
<input type="radio"/>	2
<input type="radio"/>	3
<input checked="" type="radio"/>	infinite

Click to Save Answer & Move



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Question # 18 of 30 (Start time: 05:09:33 AM, 30 December 2020)

If r_1 and r_2 are regular expressions then $(r_1 * r_2)$ is _____.

Select the correct option

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<input type="radio"/>	FA
<input type="radio"/>	TG
<input type="radio"/>	GTG
<input checked="" type="radio"/>	RE



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Quiz S

Question # 19 of 30 (Start time: 05:09:53 AM, 30 December 2020)

There may be more than one transition for a certain letter on a state in:

Select the correct option

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- | | |
|----------------------------------|-----------------------------------|
| <input type="radio"/> | Finite Automata |
| <input checked="" type="radio"/> | Non-Deterministic Finite Automata |
| <input type="radio"/> | Transition Table |
| <input type="radio"/> | Moore Machine |



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Quiz Start Time: 05:

Question # 20 of 30 (Start time: 05:10:14 AM, 30 December 2020)

Considering FA1 and FA2 having 2 states each. Now FA1+FA2 can have maximum _____ number of states.

Select the correct option

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- | | |
|----------------------------------|---------------------------|
| <input type="radio"/> | 2 |
| <input type="radio"/> | 3 |
| <input checked="" type="radio"/> | more than 3 |
| <input type="radio"/> | None of the given options |



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Quiz Start Time: 05:02 AM

Question # 21 of 30 (Start time: 05:10:40 AM, 30 December 2020)

Which one of the following is the RE for the language defined over $\Sigma = \{a, b\}$ having all the words starting with a?

Select the correct option

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- | | |
|----------------------------------|---------------|
| <input type="radio"/> | $(a + b)^*$ |
| <input type="radio"/> | $aa(a + b)^+$ |
| <input checked="" type="radio"/> | $a(a + b)^*$ |
| <input type="radio"/> | $a^*(a + b)$ |

Click to Save Answer & Move t



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Quiz Start Time: 05:02 AM

Question # 22 of 30 (Start time: 05:11:02 AM, 30 December 2020)

An _____ can be considered to be an intermediate structure between Finite automaton and Transition Graph.

Select the correct option

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<input type="radio"/>	RE
<input type="radio"/>	GTG
<input checked="" type="radio"/>	NFA
<input type="radio"/>	None of the given options



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Qui

Question # 23 of 30 (Start time: 05:11:22 AM, 30 December 2020)

Given the language $L = \{ab, aa, baa\}$, which of the following strings are in L^* ?

- 1) abaabaaabaa
- 2) aaaabaaaa
- 3) baaaaabaaaab
- 4) baaaaabaa

Select the correct option

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<input type="radio"/>	1, 2 and 3
<input type="radio"/>	2, 3 and 4
<input checked="" type="radio"/>	1, 2 and 4
<input type="radio"/>	1, 3 and 4



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Quiz Start Time:

Question # 24 of 30 (Start time: 05:11:43 AM, 30 December 2020)

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

Select the correct option

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



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Quiz Start Time: 05:02 AM

Question # 25 of 30 (Start time: 05:12:02 AM, 30 December 2020)

We cannot construct an NFA for the language of _____ defined over alphabet set {a,b}.

Select the correct option

- | | |
|----------------------------------|-------------|
| <input type="radio"/> | Even even |
| <input type="radio"/> | odd |
| <input checked="" type="radio"/> | Palindromes |
| <input type="radio"/> | Integers |

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Click to Save Answer & Move



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Quiz Start Time: 05:02 A

Question # 26 of 30 (Start time: 05:12:25 AM, 30 December 2020)

FA and _____ are same except that _____ has unique symbol for each transition.

Select the correct option

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<input type="radio"/>	FA,TG
<input type="radio"/>	NFA,TG
<input checked="" type="radio"/>	NFA,FA
<input type="radio"/>	GTG,NFA

Click to Save Answer & Move



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Quiz Start Time

Question # 27 of 30 (Start time: 05:12:47 AM, 30 December 2020)

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

Select the correct option

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<input checked="" type="radio"/>	atleast
<input type="radio"/>	atmost
<input type="radio"/>	maximum
<input type="radio"/>	none of the given options



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Qu

Question # 28 of 30 (Start time: 05:13:10 AM, 30 December 2020)

If L is a regular language, then $(L') \cup L$ will be:

Select the correct option

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- | | |
|----------------------------------|-----------------------|
| <input checked="" type="radio"/> | L |
| <input type="radio"/> | L' |
| <input type="radio"/> | Λ |
| <input type="radio"/> | none of the mentioned |



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Quiz Start Time: 05:02 AM, 30 December 2020

Question # 29 of 30 (Start time: 05:13:34 AM, 30 December 2020)

Total Marks: 1

Keeping in view the discussion by Martin, how many states are required to recognize the language of all strings of length 2 or more defined over $\Sigma = \{a,b\}$, with 'b' being the second letter from right?

Select the correct option

- | | | | |
|----------------------------------|---|--|-------------------|
| <input type="radio"/> | 6 | | |
| <input checked="" type="radio"/> | 7 | | Sonu Ilyas Mughal |
| <input type="radio"/> | 8 | | |
| <input type="radio"/> | 9 | | |

Click to Save Answer & Move to Next Question



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CS402:Grand Quiz

Quiz Start Time: 05:02 AM, 30 December 2020

Question # 30 of 30 (Start time: 05:14:00 AM, 30 December 2020)

Total Marks: 1

Suppose a language L1 has 2 states and L2 has 2 states. If we have a machine M that accepts $L1 \cap L2$. Then, the total number of states in M is equal to _____.

Select the correct option

- | | |
|----------------------------------|---|
| <input type="radio"/> | 2 |
| <input checked="" type="radio"/> | 4 |
| <input type="radio"/> | 6 |
| <input type="radio"/> | 8 |

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- 3) Recorded Videos
- 4) Topic wise Notes
- 5) Short QA Solved
- 6) MCQs Solved
- 7) Solved Past and Current paper
- 8) Solved Graded Activities (Assignment Quiz GDB)

Activity
Detailed
Information

Project Enrolment Complete training with Live classes on Zoom

- 1) SRS (Software Requirements Specification)
- 2) DD (Design Document)
- 3) Test phase
 - a) Test phase viva (Live Classes for viva preparation)
- 4) Final Deliverable
 - a) Final coding
 - b) Final presentation
 - c) Final report
 - d) Pre final viva (Coding Viva)
 - e) Final viva (Overall Presentation)

*First See Our Result
Than Join Us!*

Subjects Enrolment

- 1) Lecture live on Zoom
- 2) Written Lectures (pdf)
- 3) Recorded Videos
- 4) Topic wise Notes
- 5) Short QA Solved
- 6) MCQs Solved
- 7) Solved Past and Current paper
- 8) Solved Graded Activities (Assignment Quiz GDB)

Activity
Detailed
Information

Project Enrolment Complete training with Live classes on Zoom

- 1) SRS (Software Requirements Specification)
- 2) DD (Design Document)
- 3) Test phase
 - a) Test phase viva (Live Classes for viva preparation)
- 4) Final Deliverable
 - a) Final coding
 - b) Final presentation
 - c) Final report
 - d) Pre final viva (Coding Viva)
 - e) Final viva (Overall Presentation)

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