

 View Instructions Test Name- URCCA33322

Time Remaining- 17:08

Raj Kumar Saw , 12007110

Q: 01 of 15

The transition a Push down automaton is dependent upon the:

Attempt Status

Answered 15

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Options :

- ☒ stack
- ☐ input tape
- ☐ terminals
- ☐ none of the mentioned

 Clear Response

Questions

01	02	03	04	05	06
07	08	09	10	11	12
13	14	15			

Previous

 Flag

Next

End Test

 View Instructions Test Name- URCCA33322

Time Remaining- 17:01

Raj Kumar Saw , 12007110

Q: 02 of 15

A push down automata is different than finite automata by

Options :

- ☒ Its memory
- ☐ Number of states
- ☐ Both (a) and (b)
- ☐ None of these

 Clear Response

Attempt Status

Answered 15

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Pending 0

Questions

01	02	03	04	05	06
07	08	09	10	11	12
13	14	15			

Previous

 Flag

Next

End Test

[View Instructions](#)

Test Name- URCCA33322

Time Remaining- 16:30

Raj Kumar Saw , 12007110

Q: 03 of 15

Options :

PDA is more powerful than

- ☐ Turing machine
- ☐ Multi tape Turing machine
- ☒ Finite automata
- ☐ All of these

[Clear Response](#)

Attempt Status

Answered 15

Flagged 0

Pending 0

Questions

01	02	03	04	05	06
07	08	09	10	11	12
13	14	15			

Previous

Flag

Next

End Test

 View Instructions Test Name- URCCA33322

Time Remaining- 16:07

Raj Kumar Saw , 12007110

Q: 04 of 15

A CFG is not closed under

Attempt Status

Answered 15

Flagged 0

Pending 0

Options :

- ☐ Dot operation
- ☐ Union Operation
- ☐ Concatenation
- ☒ Iteration

 Clear Response

Questions

01	02	03	04	05	06
07	08	09	10	11	12
13	14	15			

Previous

 Flag

Next

End Test



[View Instructions](#)

Test Name- URCCA33322

Time Remaining- 16:03

Raj Kumar Saw , 12007110

Q: 05 of 15

Options :

A push down automata can represented using:

- ☐ Transition graph
- ☐ Transition table
- ☐ ID
- ☒ All of the mentioned

[Clear Response](#)

Attempt Status

Answered 15

Flagged 0

Pending 0

Questions

01	02	03	04	05	06
07	08	09	10	11	12
13	14	15			

[Previous](#)[Flag](#)[Next](#)[End Test](#)

[View Instructions](#)

Test Name- URCCA33322

Time Remaining- 15:58

Raj Kumar Saw , 12007110

Attempt Status

Answered 15

Flagged 0

Pending 0

Questions

01	02	03	04	05	06
07	08	09	10	11	12
13	14	15			

Q: 06 of 15

Which of the following are the actions that operates on stack top?

Options :

- ☐ Pushing
- ☐ Popping
- ☐ Replacing
- ☒ All of the mentioned

[Clear Response](#)

Previous

Flag

Next

End Test



[View Instructions](#)

Test Name- URCCA33322

Time Remaining- 15:41

Raj Kumar Saw , 12007110

Q: 07 of 15
Options :

Attempt Status

Answered 15

Flagged 0

Pending 0

Questions

01	02	03	04	05	06
07	08	09	10	11	12
13	14	15			

The appropriate precedence order of operations over a Regular Language is

- ☐ Kleene, Union, Concatenate
- ☐ Kleene, Star, Union
- ☒ Kleene, Dot, Union
- ☐ Star, Union, Dot

[Clear Response](#)

Previous

Flag

Next

End Test

[View Instructions](#)

Test Name- URCCA33322

Time Remaining- 15:37

Raj Kumar Saw , 12007110

Q: 08 of 15
Options :

Regular Expression R and the language it describes can be represented as:

- ☐ R, R(L)
- ☐ L(R), R(L)
- ☒ R, L(R)
- ☐ All of the mentioned

[Clear Response](#)

Attempt Status

Answered 15

Flagged 0

Pending 0

Questions

01	02	03	04	05	06
07	08	09	10	11	12
13	14	15			

[Previous](#)[Flag](#)[Next](#)[End Test](#)

[View Instructions](#)

Test Name- URCCA33322

Time Remaining- 15:34

Raj Kumar Saw , 12007110

Q: 09 of 15
Options :

(a + b*c) most correctly represents

- ☐ (a +b) *c
- ☐ (a)+((b)*.c)
- ☐ (a + (b*)),c
- ☒ a+ ((b*).c)

[Clear Response](#)

Attempt Status

Answered 15

Flagged 0

Pending 0

Questions

01	02	03	04	05	06
07	08	09	10	11	12
13	14	15			

Previous

Flag

Next

End Test

 View Instructions Test Name- URCCA33322

Time Remaining- 15:30

Raj Kumar Saw , 12007110

Attempt Status

Answered 15

Flagged 0

Pending 0

Questions

01	02	03	04	05	06
07	08	09	10	11	12
13	14	15			

Q: 10 of 15

According to the precedence rules, $x-y-z$ is equivalent to which of the following?

Options :

- ☒ $(x-y)-z$
- ☐ $x-(y-z)$
- ☐ Both $(x-y)-z$ and $x-(y-z)$
- ☐ None of the mentioned

 Clear Response Flag

Next

End Test

[View Instructions](#)

Test Name- URCCA33322

Time Remaining- 15:13

Raj Kumar Saw , 12007110

Q: 11 of 15

Which among the following is equivalent to the given regular expression?
 01^*+1

Attempt Status

Answered

15

Flagged

0

Pending

0

Options :

- ☐ $(01)^*+1$
- ☐ $0((1)^*+1)$
- ☒ $(0(1)^*)+1$
- ☐ $((0^*1)1^*)^*$

[Clear Response](#)

Questions

01	02	03	04	05	06
07	08	09	10	11	12
13	14	15			

[Previous](#)[Flag](#)[Next](#)[End Test](#)

[View Instructions](#)

Test Name- URCCA33322

Time Remaining- 15:05

Raj Kumar Saw , 12007110

Attempt Status

Answered 15

Flagged 0

Pending 0

Questions

01	02	03	04	05	06
07	08	09	10	11	12
13	14	15			

Q: 12 of 15

A language is regular if and only if

Options :

- ☒ accepted by DFA
- ☐ accepted by PDA
- ☐ accepted by LBA
- ☐ accepted by Turing machine

[Clear Response](#)

Previous

[Flag](#)

Next

End Test

[View Instructions](#)

Test Name- URCCA33322

Time Remaining- 14:55

Raj Kumar Saw , 12007110

Attempt Status

Answered 15

Flagged 0

Pending 0

Questions

01	02	03	04	05	06
07	08	09	10	11	12
13	14	15			

Q: 13 of 15

Which kind of proof is used to prove the regularity of a language?

Options :

- ☒ Proof by contradiction
- ☐ Direct proof
- ☐ Proof by induction
- ☐ None of the mentioned

[Clear Response](#)

Previous

[Flag](#)

Next

End Test

 View Instructions Test Name- URCCA33322

Time Remaining- 14:47

Raj Kumar Saw , 12007110

Attempt Status

Answered 15

Flagged 0

Pending 0

Questions

01	02	03	04	05	06
07	08	09	10	11	12
13	14	15			

Q: 14 of 15

Which among the following are incorrect regular identities?

Options :

☐ $\varepsilon R = R$ ☐ $\varepsilon^* = \varepsilon$ ☐ $\Phi^* = \varepsilon$ ☒ $R\Phi = R$  Clear Response

Previous

 Flag

Next

End Test

[View Instructions](#)

Test Name- URCCA33322

Time Remaining- 14:44

Raj Kumar Saw , 12007110

Attempt Status

Answered 15

Flagged 0

Pending 0

Questions

01	02	03	04	05	06
07	08	09	10	11	12
13	14	15			

Q: 15 of 15

RR* can be expressed in which of the forms:

Options :

- ☒ R+
- ☐ R-
- ☐ R+ U R-
- ☐ R

[Clear Response](#)[Previous](#)[Flag](#)[Next](#)[End Test](#)