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View Instructions | Test Name- CA2AUTOMATA | Time Remaining- 03:07

Adarsh Kumar Prasad , 12019428

Attempt Status

Answered 30 | Flagged 0 | Pending 0

Questions

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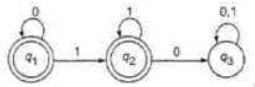
| 25 | 26 | 27 | 28 | 29 | 30 |

Q: 30 of 30

Recognize the regular expression corresponding to the following Finite Automata using Arden's Method:




a. 0*1*
b. (0 + 1)*
c. (1101)*
d. (0 + 11 + 010)*



Options :

- (●) A
- ( ) B
- ( ) C
- ( ) D

Clear Response

6 of them are incorrect and remaining 24 are correct

Previous | Flag | Next | End Test

24°C Mostly clear

ENG IN 20:00 12-10-2022

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Questions

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Q: 27 of 30

Consider the following languages

$$L1 = \{ww | w \in \{a,b\}*\}$$
$$L2 = \{ww^R | w \in \{a,b\}*, w^R is\ the\ reverse\ of\ \ w\}$$
$$L3 = \{0^{2i} | i\ is\ an\ integer\}$$
$$L4 = \left\{0^{i^2} | i\ is\ an\ integer\right\}$$

Which of the languages are regular?

a) Only L1 and L2
b) Only L2, L3 and L4
c) Only L3 and L4
d) Only L3



Options :

- ○ A
- ◉ B
- ○ C
- ○ D

Clear Response

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View Instructions | Test Name- CA2AUTOMATA | Time Remaining- 03:15

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Attempt Status

Answered 30 | Tagged 0 | Pending 0

Questions

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Q: 26 of 30

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

1) abaabaaabaa

2) aaaabaaaa

3) baaaaabaaaab

4) baaaaabaa

a) 1, 2 and 3

b) 2, 3 and 4

c) 1, 2 and 4

d) 1, 3 and 4



Options :

- A
- B
- C
- D

Clear Response

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A. A and B are Equivalent
B. A and B are not Equivalent
C. Cannot be defined
D. None of these



Clear Response

End Test

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Attempt Status

Answered 30 | Tagged 0 | Pending 0

Questions

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Q: 20 of 30

7. Which one of the following languages over the alphabet {0,1} is described by the regular expression?
(0+1)*0(0+1)*0(0+1)*

a. The set of all strings containing the substring 00.
b. The set of all strings containing at most two 0's.

c. The set of all strings containing at least two 0's.
d. The set of all strings that begin and end with either 0 or 1.

Options :

- A
- B
- C
- D

Clear Response



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Questions

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Q: 25 of 30

4. Consider the languages L1=ϕ and L2 = {a}. Which one of the following represents L1 L2* U L1*

(A) {ϵ} (B) Φ (C) $a^*$ (D) {ϵ, a}

**a) A**
b) B
c) C
d) D

Options :

- (•) A
- ( ) B
- ( ) C
- ( ) D

Clear Response



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View Instructions | Test Name- CA2AUTOMATA | Time Remaining- 03:28

Adarsh Kumar Prasad , 12019428

Attempt Status

Answered 30 | Flagged 0 | Pending 0

Questions

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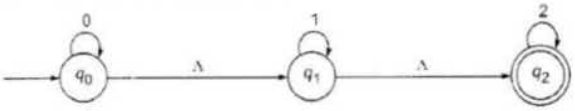
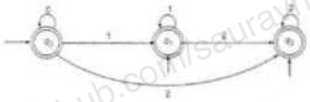
Q: 22 of 30

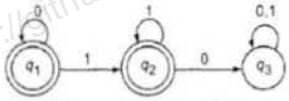
Consider a finite automaton, with A-moves, given in Fig. which among the following is the Equivalent automaton without A-moves.



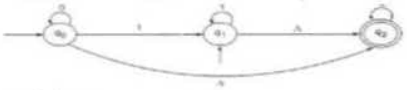

a.



b.




c.



d. None of above

Options :

- (•) A
- ( ) B
- ( ) C



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Q: 12 of 30

Attempt Status

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Questions

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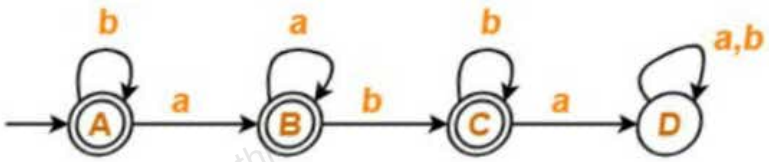
| 19 | 20 | 21 | 22 | 23 | 24 |
| 25 | 26 | 27 | 28 | 29 | 30 |

Q5) Find the regular expression for the given




a)b*(aa*(bb*+∈)+∈)

b) b*(aa*(aa*+∈)+∈)

c)both a and b

d) none of the above

Options :

- A
- B
- C
- D

Clear Response

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Questions

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Q: 23 of 30

**Which of the following CFG's can't be simulated by an FSM ?**

**A.** S --> Sa | b

**B.** S --> aSb | ab

**C.** S --> abX, X --> cY, Y --> d | aX

**D.** None of these

Options :

- A
- B
- C
- D

Clear Response



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Questions

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Q: 19 of 30

If L1 = $\{a^n \mid n \geq 0\}$ and L2 = $\{b^n \mid n \geq 0\}$ is regular
then L3 = L1.L2 = $\{a^m . b^n \mid m \geq 0$ and $n \geq 0\}$ is also regular?

a. False

b True

c.None of the above

d.Regular

Options :

- A
- B
- C
- D

Clear Response



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Questions

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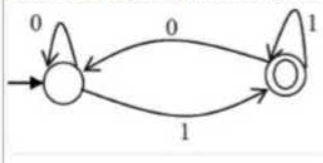
Q: 15 of 30

Q5

Which of the regular expressions given below represent the following DFA?




I) 0*1(1+00*1)*
II) 0*1*1+11*0*1
III) (0+1)*1

(A) I and II only
(B) I and III only
(C) II and III only
(D) I, II, and III

Options :

- A
- B
- C
- D

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Attempt Status

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Questions

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Q: 29 of 30

By using Arden's Theorem, the equation $q_1 = q_1(ab + ba) + \wedge$ can be written as,

a. $q_1 = (a+ b)^*$
b. $q_1 = (abba)^*$
c. $q_1 = (ab + ba)^*$
d. $q_1 = (ab)^*$

Options :

- A
- B
- C
- D

Clear Response



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Adarsh Kumar Prasad , 12019428

Q: 28 of 30

Let P and Q be two regular expressions over Σ. If P does not contain ^, then according to A theorem, R = Q + RP has a unique solution given by _____

a. R = QP*
b. R = Q + P*
c. R = Q*P
d. R = Q + P

Attempt Status

Answered 30 | Flagged 0 | Pending 0

Questions

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Options :

- (•) A
- ( ) B
- ( ) C
- ( ) D

Clear Response



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Q: 21 of 30

9. Which of the following pairs of regular expressions are equivalent?

a. 1(01)* and (10)*1

b. x (xx)* and (xx)*x

c. x^+ and x^+ x^(*+)

d. All of the above mentioned

Options :

- A
- B
- C
- D

Clear Response



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Questions

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Q: 24 of 30

Q. If Σ = {a,b} and given productions are

S→XaaX

X→aX| bX|Λ

Then the above grammar defines the language expressed by_____ regular expression

a. (a+b)*aa(a+b)*
b. (a+b)*a(a+b)*a
c. (a+b)*aa(a+b)*aa
d. (a+b)*aba+b)*

Options :

- (•) A
- ( ) B
- ( ) C
- ( ) D

Clear Response



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Attempt Status

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Questions

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**Q: 04 of 30**

A context sensitive language is accepted by
a) Finite automata
b) Linear bounded automata
c) Both (a) and (b)
d) None of these

**Options :**

- ○ A
- ◉ B
- ○ C
- ○ D

Clear Response



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Questions

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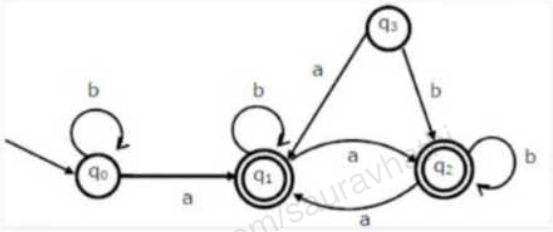
Q: 14 of 30

Consider the following Finite State Automaton. The language accepted by this automaton is given by the regular expression






(A) $b^*ab^*ab^*ab^*$ (B) $(a+b)^*$ (C) $b^*a(a+b)^*$ (D) $b^*ab^*ab^*$

Options :

- A
- B
- C
- D

Clear Response

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Answered 30 | Flagged 0 | Pending 0

Questions

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Q: 11 of 30

1. Regular expression Φ* is equivalent to
   a) ϵ
   b) Φ
   c) 0
   d) 1

Options :

- (●) A
- ( ) B
- ( ) C
- ( ) D

Clear Response



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Questions

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Q: 06 of 30

Which of the following is more powerful?
a) PDA
b) Turing machine
c) Finite automata
d) Context sensitive language

Options :

- ○ A
- ◉ B
- ○ C
- ○ D

Clear Response



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Attempt Status

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Questions

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**Q: 01 of 30** Regular languages are closed under (closure properties)

a. Concatenation

b. Union

c. Complement

d. All of the above

**Options :**

- ○ A
- ○ B
- ○ C
- ◉ D

Clear Response



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Questions

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| 25 | 26 | 27 | 28 | 29 | 30 |

Q: 02 of 30

1. Regular expression $\Phi^*$ is equivalent to
   a) $\epsilon$
   b) $\Phi$
   c) 0
   d) 1

Options :

- (●) A
- ( ) B
- ( ) C
- ( ) D

Clear Response



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Questions

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**Q: 03 of 30**

A regular language over an alphabet a is one that can be obtained from
a) union
b) concatenation
c) kleene
d) All of the mentioned

**Options :**

- ○ A
- ○ B
- ○ C
- ◉ D

Clear Response



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Questions

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**Q: 13 of 30**

The entity which generate Language is termed as:
a) Automata
b) Tokens
c) Grammar
d) Data

**Options :**

- ○ A
- ○ B
- ◉ C
- ○ D

Clear Response



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Questions

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**Q: 18 of 30**

(a + b*c) most correctly represents:

a. (a +b) *c

b. (a)+((b)*.c)

c. (a + (b*)).c

d. a+ ((b*).c)

**Options :**

- A
- B
- C
- D

Clear Response



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Q: 05 of 30

A grammar G = (V, T, P, S) in which V is
a) Set of variables
b) Set of terminals
c) Set of variables and terminals
d) None of these

Options :

- (●) A
- ( ) B
- ( ) C
- ( ) D

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Questions

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Q: 09 of 30

Arden's theorem is true for:

a. More than one initial states
b. Non-null transitions
c. Null transitions
d. None of the above

Options :

- A
- (•) B
- C
- D

Clear Response



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**Q: 08 of 30** 1. A Finite Automata with null **moves** is considered to be _____

a. DFA

b. NDFA

C. BOTH

D. None of the above

**Options :**

- ○ A
- ◉ B
- ○ C
- ○ D

Clear Response



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View Instructions

Test Name- CA2AUTOMATA

**Adarsh Kumar Prasad , 12019428**

Attempt Status

Answered 29 | Flagged 0 | Pending 1

Questions

| | | | | | |
|---|---|---|---|---|---|
| 01 | 02 | 03 | 04 | 05 | 06 |
| 07 | 08 | 09 | 10 | 11 | 12 |
| 13 | 14 | 15 | 16 | 17 | 18 |
| 19 | 20 | 21 | 22 | 23 | 24 |
| 25 | 26 | 27 | 28 | 29 | 30 |

**Q: 07 of 30**

Which of the following relates to Chomsky hierarchy?

a) Regular<CFL<CSL<Unrestricted

b) CFL<CSL<Unrestricted<Regular

c) CSL<Unrestricted<CF<Regular

d) None of the mentioned

**Options :**

- (●) A
- ( ) B
- ( ) C
- ( ) D

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Questions

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| 25 | 26 | 27 | 28 | 29 | 30 |

Q: 17 of 30

Q10 Find the pair of regular expressions that are equivalent

a. (0+1)* and (0*+1*)*

b. (0+1)* and (0+1*)*

c. (0+10)* and (0*+10)*

d. All of the mentioned

Options :

- A
- B
- C
- D

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Q: 10 of 30

Which of the following is useful for converting a finite automaton into a regular expression?

a. Null Moves
b. Kleen's Closure
c. Transition Function
d. Arden's Theorem

Attempt Status

Answered 29 | Flagged 0 | Pending 1

Questions

| | | | | | |
|---|---|---|---|---|---|
| 01 | 02 | 03 | 04 | 05 | 06 |
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Options :

- A
- B
- C
- D

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