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CLICK HERE TO VIEW QUESTIONS

The duration of the assessment is 1 hour. The last 10 minutes are included here for pdf submission.

You have **ONLY 1 ATTEMPT** for the entire question paper. So, be sure of your answer before submitting.

Don't submit at the last moment.

Read the question properly before answering.

Don't forget to keep screenshots of your submissions, just in case. You must take the screenshot while the exam is running, and not afterwards.

Keep a khata with you, where you show the detailed simulations to your questions.

Combine the pages sequentially into a pdf

After you're done with buX submission, click on the link below to submit your pdf

STUDENT INFORMATION

0 points possible (ungraded, results hidden)

It is crucial that you submit this information

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Full Name

Shadab Iqbal

Student ID

19101072



Section

8



Submit

i Answer submitted.

For the followpos table, ignore the last column. Followpos for each node will be the union of the first 3 columns

QUESTION

20.0 points possible (graded, results hidden)

MIDTERM

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Then start answering the following questions.

Node (n)	Followpos for '*' node	Followpos for '.' node	Followpos for '+' node	Followpos for Node (n)
1		3,6	1,2	1,2,3,6
2		3,6	1,2	1,2,3,6
3		4		4
4		6		6
5	5	6		5,6
6				

Fig. 1: THE FOLLOWPOS TABLE

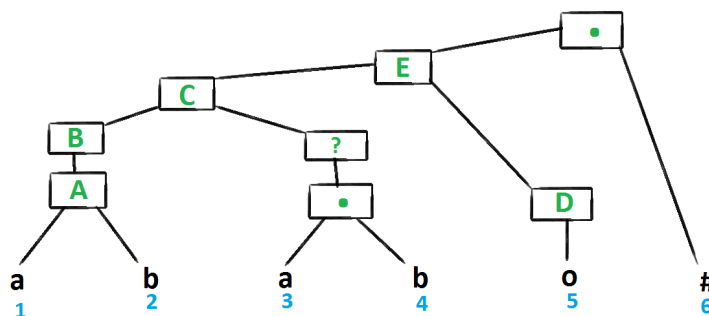


Fig. 2: THE SYNTAX TREE

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☒ |

☐ .

☐ *

Question 2. What will be the operator at node B ?

☒ +

☐ |

☐ .

☐ *

Question 3. What will be the operator at node C ?

☐ +

☐ |

☒ .

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Question 4. What will be the operator at node D ?

☐ +

☐ |

☐ .

☒ *

Question 5. What will be the operator at node E ?

☐ +

☒ |

☐ .

☐ *

Question 6. What will be the set of Firstpos at node A ?

☒ 1

☒ 2

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☐ 5

☐ 6

Question 7. What will be the set of Firstpos at node B ?

☒ 1

☒ 2

☐ 3

☐ 4

☐ 5

☐ 6

Question 8. What will be the set of Firstpos at node C ?

☒ 1

☒ 2

☐ 3

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☐ 6

Question 9. What will be the set of Firstpos at node D ?

☐ 1

☐ 2

☐ 3

☐ 4

☒ 5

☐ 6

Question 10. What will be the set of Firstpos at node E ?

☒ 1

☒ 2

☐ 3

☐ 4

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Question 11. What will be the set of Lastpos at node A ?

☒ 1

☒ 2

☐ 3

☐ 4

☐ 5

☐ 6

Question 12. What will be the set of Lastpos at node B ?

☒ 1

☒ 2

☐ 3

☐ 4

☐ 5

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Question 13. What will be the set of Lastpos at node C ?

☒ 1

☒ 2

☐ 3

☒ 4

☐ 5

☐ 6

Question 14. What will be the set of Lastpos at node D ?

☐ 1

☐ 2

☐ 3

☐ 4

☒ 5

☐ 6

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☒ 2

☐ 3

☒ 4

☒ 5

☐ 6

Now consider the incomplete DFA for that regular expression.

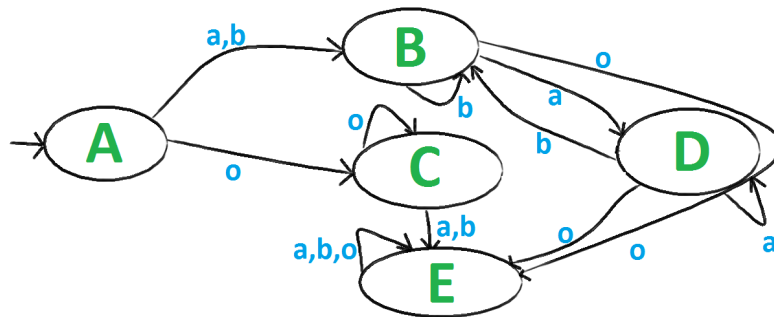


Fig. 3: THE DFA

Question 16. What will be the set of positions at state A ?

☒ 1

☒ 2

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☒ 5

☒ 6

☐ none

Question 17. What will be the set of positions at state B ?

☒ 1

☒ 2

☒ 3

☐ 4

☐ 5

☒ 6

☐ none

Question 18. What will be the set of positions at state C ?

☐ 1

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☐ 4

☒ 5

☒ 6

☐ none

Question 19. What will be the set of positions at state D ?

☒ 1

☒ 2

☒ 3

☒ 4

☐ 5

☒ 6

☐ none

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☐ 2

☐ 3

☐ 4

☐ 5

☐ 6

☒ none

Submit

You have used 0 of 1 attempt



Your answers have been saved but not graded. Click 'Submit' to grade them.

CLICK HERE TO SUBMIT YOUR PDF :

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