

CS304 - Quiz 2

Sep 1, 2025

Name:

Roll No.:

Instructions. Do not cancel and rewrite your solutions; use the rough space provided for your calculations. Write the solution only after you are fully satisfied with it. Ensure that your solutions **follow all the conventions** discussed in the class.

Consider the alphabet $\Sigma = \{a, b, c\}$ and the language L over Σ consisting of all strings that start and end with different symbols.

Question 1 (5 points). *Write a regular expression for L .*

Question 2 (5 points). *Draw a state diagram for an NFA that accepts L .*

Rough Space.