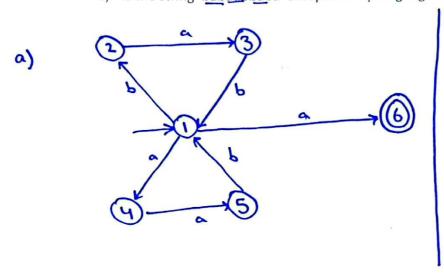
Quiz - 2 Section - 3J Date - 18-Sept-25 Student Roll No. 241-0617
Student Name: Taha Tahir

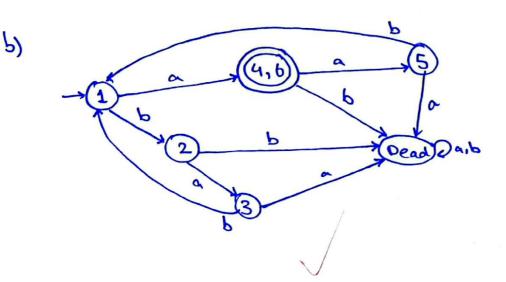
Total marks: 10

Note: In both questions, do all steps neatly in sequence. Otherwise, no marks will be given.

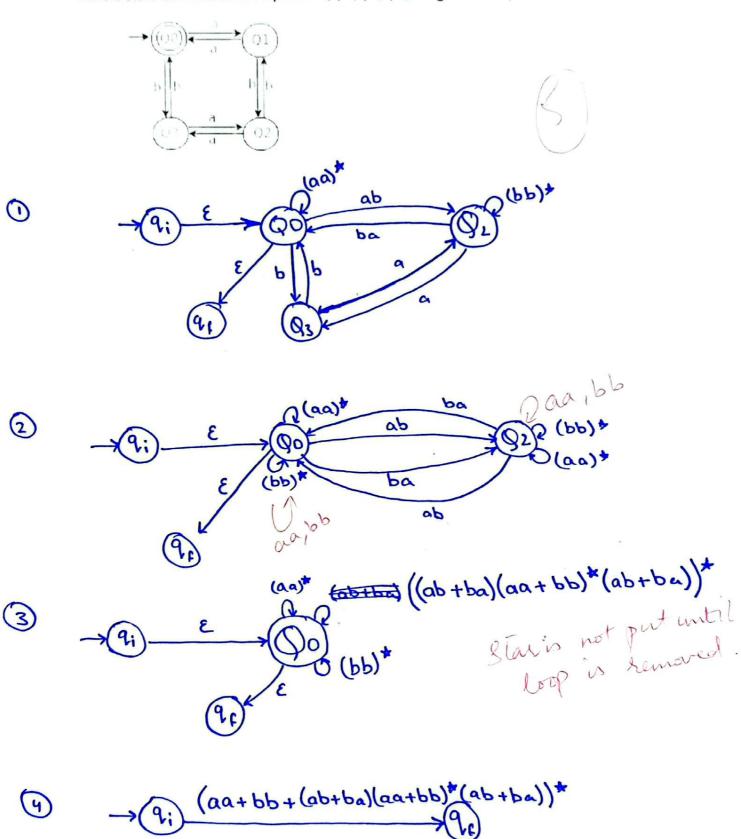
Q:1 - Given a R.E. {bab, aab}\*.a when  $\Sigma = \{a, b\}$  (2+2+1 marks)

- a) Draw NFA state diagram
- b) Convert NFA of part (a) into DFA
- c) Is the string 'babaabbaba' acceptable by language?





Q:2 – Make Regular Expression of language accepted by the DFA below. (5 marks) Follow state elimination in sequence Q1, Q3, Q2, Q0 to get final expression.



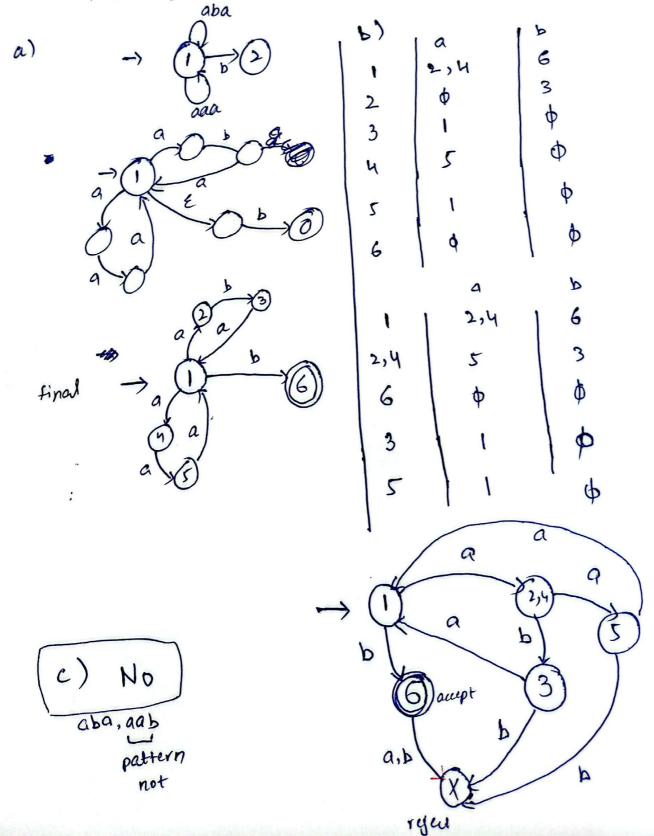
Reg ex= (aa+bb+{(ab+ba)(aa+bb)\* (ab+ba))\*

Quiz - 2 Section - 5J Date - 17-Sept-25 Student Roll No. 23L-0786
Student Name: Ahmad Rasheed
Total marks: 10

Note: In both questions, do all steps neatly in sequence. Otherwise, no marks will be given.

Q:1 - Given a R.E. {aba, aaa}\*.b when  $\Sigma = \{a, b\}$  (2+2+1 marks)

- a) Draw NFA state diagram
- b) Convert NFA of part (a) into DFA
- c) Is the string 'abaaababa' acceptable by language?



Q:2 - Make parse tree for the string 'aabaabb' with the given NFA. (5 marks)



Figure 3.71
Von, academonic in to accept

