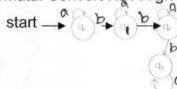
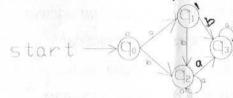
Group 'B'

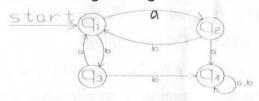
 What is finite Automata? Describe the property of finite Automata. Convert NDFA given Transaction diagram.



3. Describe the MOORE and MILEARY Machine and convert given MOORE Machine to equivalent MILEARY Machine.



7. Describe the Arden's theorem. Find the regular Expression for transaction diagram is given below.



- Describe the pumping Lemma/Theorem for regular Language, and prove that L={OⁱIⁱ|i≥I} is not regular or regular.
- (a) Give the C.F.G. for Generating an alternating sequence 10' S' and '1' S'.
 - (b) Design a context free grammar which can produce balanced parenthesis.

10. Prove that (1+00*1) + (1+00*1) (0+10*1) * (0+10*1) = 0*1(0 + 10*1)* by using Identities for regular expression.

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