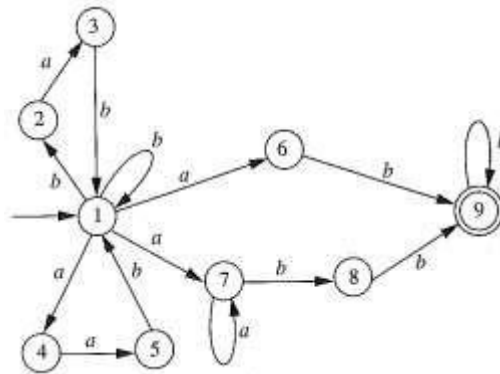


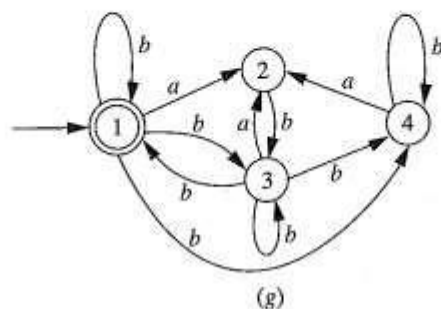
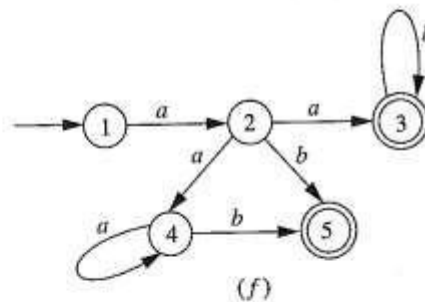
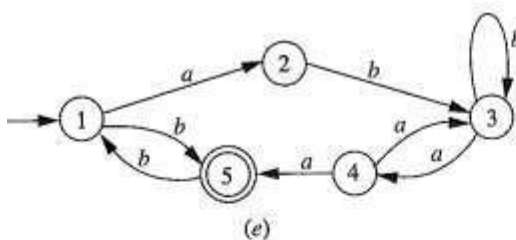
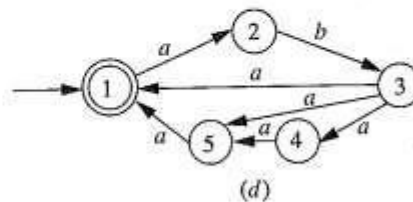
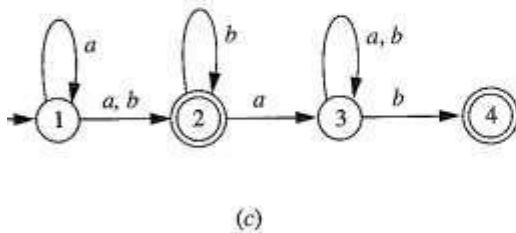
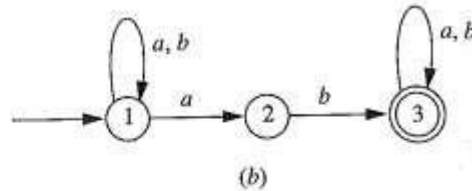
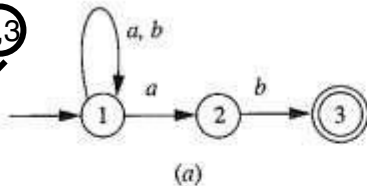
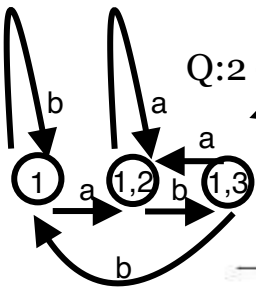
## Tutorial No 4 Non Deterministic Finite Automata

Q.1 In the NFA given below, Calculate each of the following:

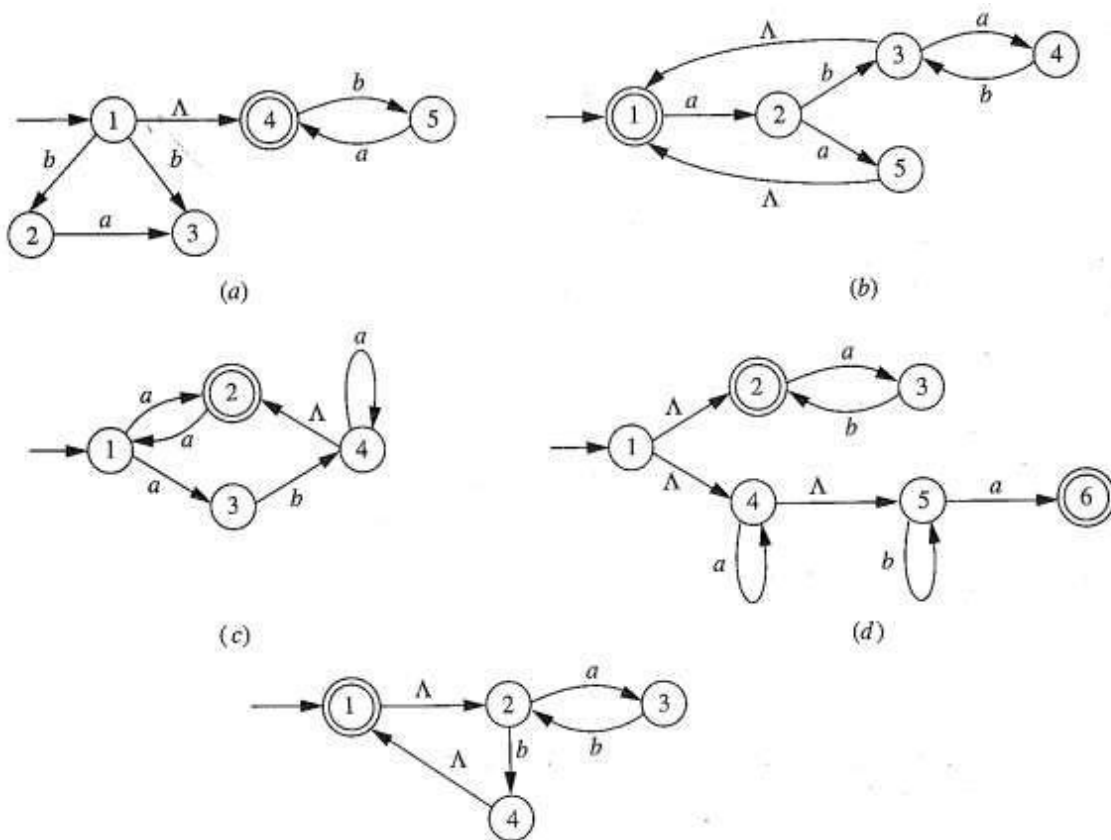
- {1}      a.  $\delta^*(1, bb)$
- {1,8,9}      b.  $\delta^*(1, bab)$
- {1,2,9}      c.  $\delta^*(1, aabb)$
- {1,8,9}      d.  $\delta^*(1, aabbab)$
- { $\phi$ }
- e.  $\delta^*(1, aba)$



Q:2 Convert the following NFA to DFA



Q:3 Convert the following NFA- $\Lambda$  to corresponding DFA



If we can visit final stage from starting stage via null transition then initial stage will also be final stage.