Tutorial No 4 Non Deterministic Finite Automata

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

{1}   a. $\delta^*(1, bb)$

{1,9}   b. $\delta^*(1, bab)$
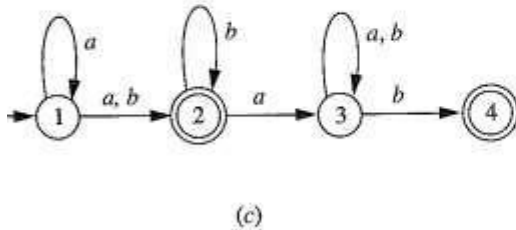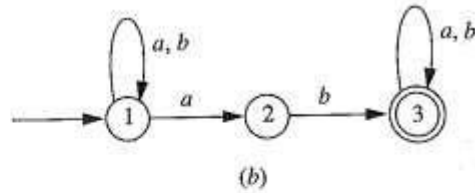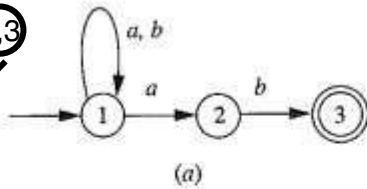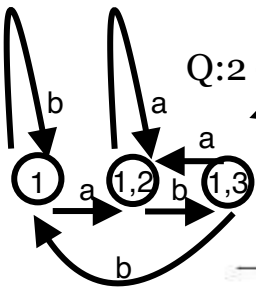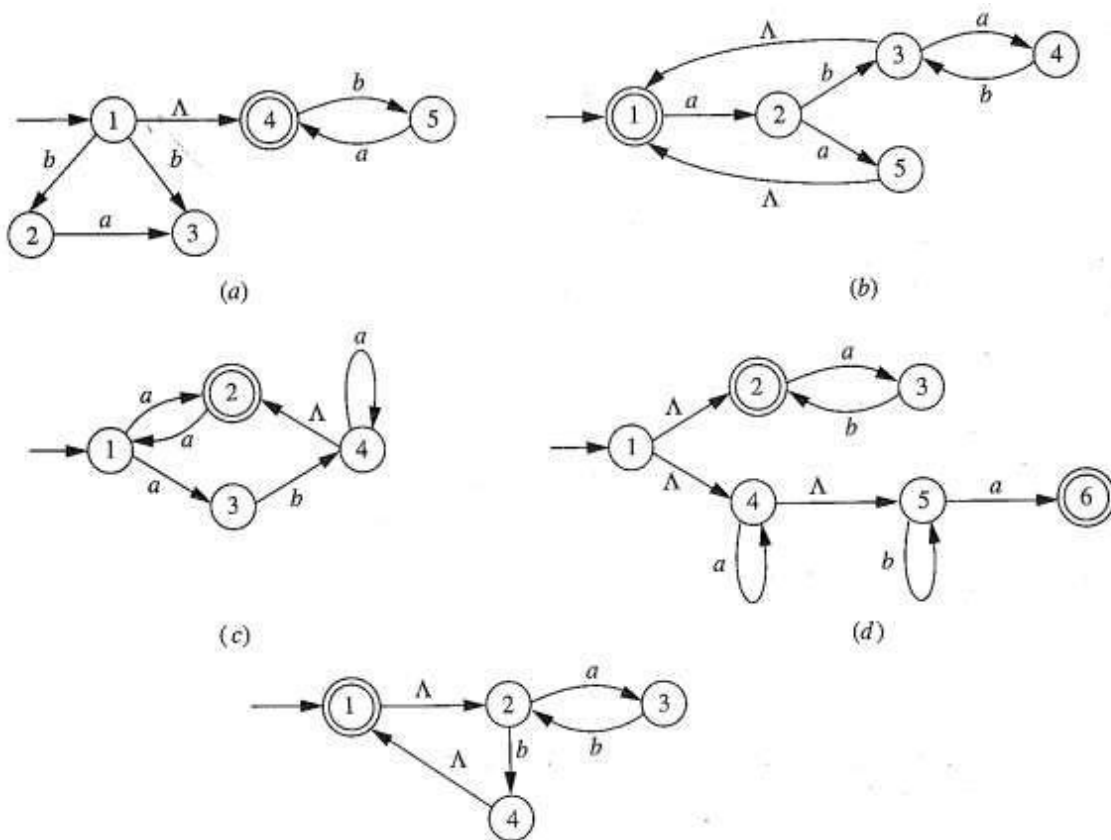
{1,2,9}   c. $\delta^*(1, aabb)$

{1,8,9}   d. $\delta^*(1, aabbab)$

{phi}   e. $\delta^*(1, aba)$
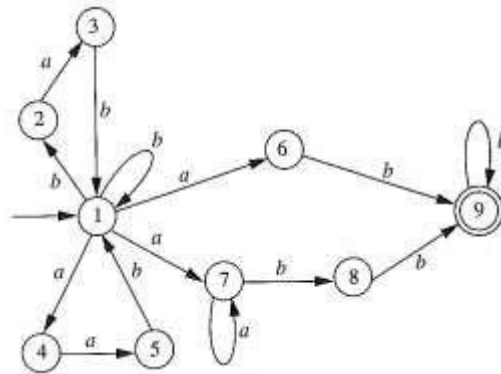
Q:2 Convert the following NFA to DFA
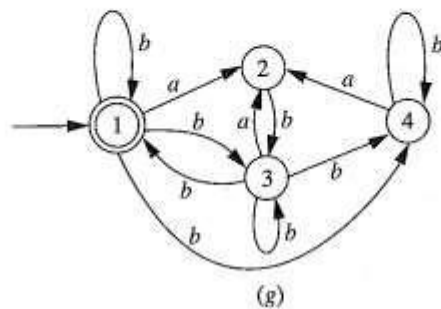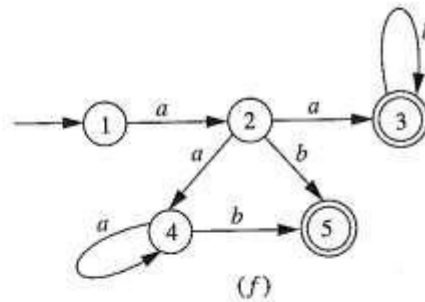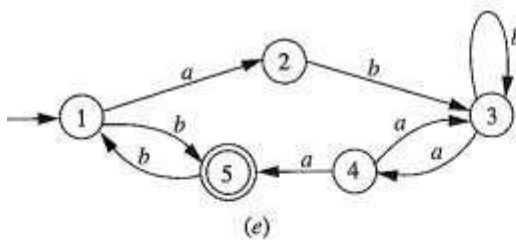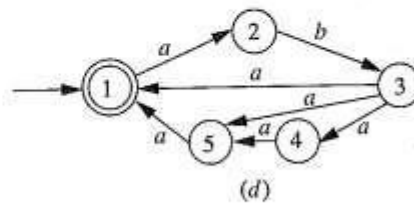
Q:3 Convert the following NFA-^ to corresponding DFA

(a)

(b)

(c)

(d)

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