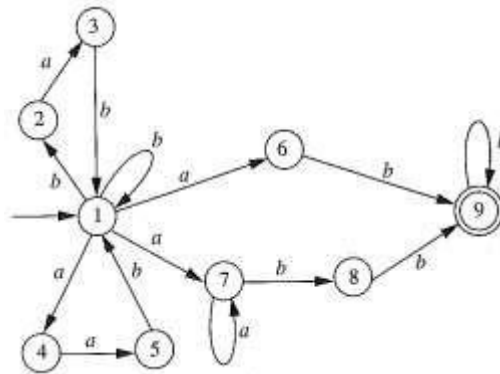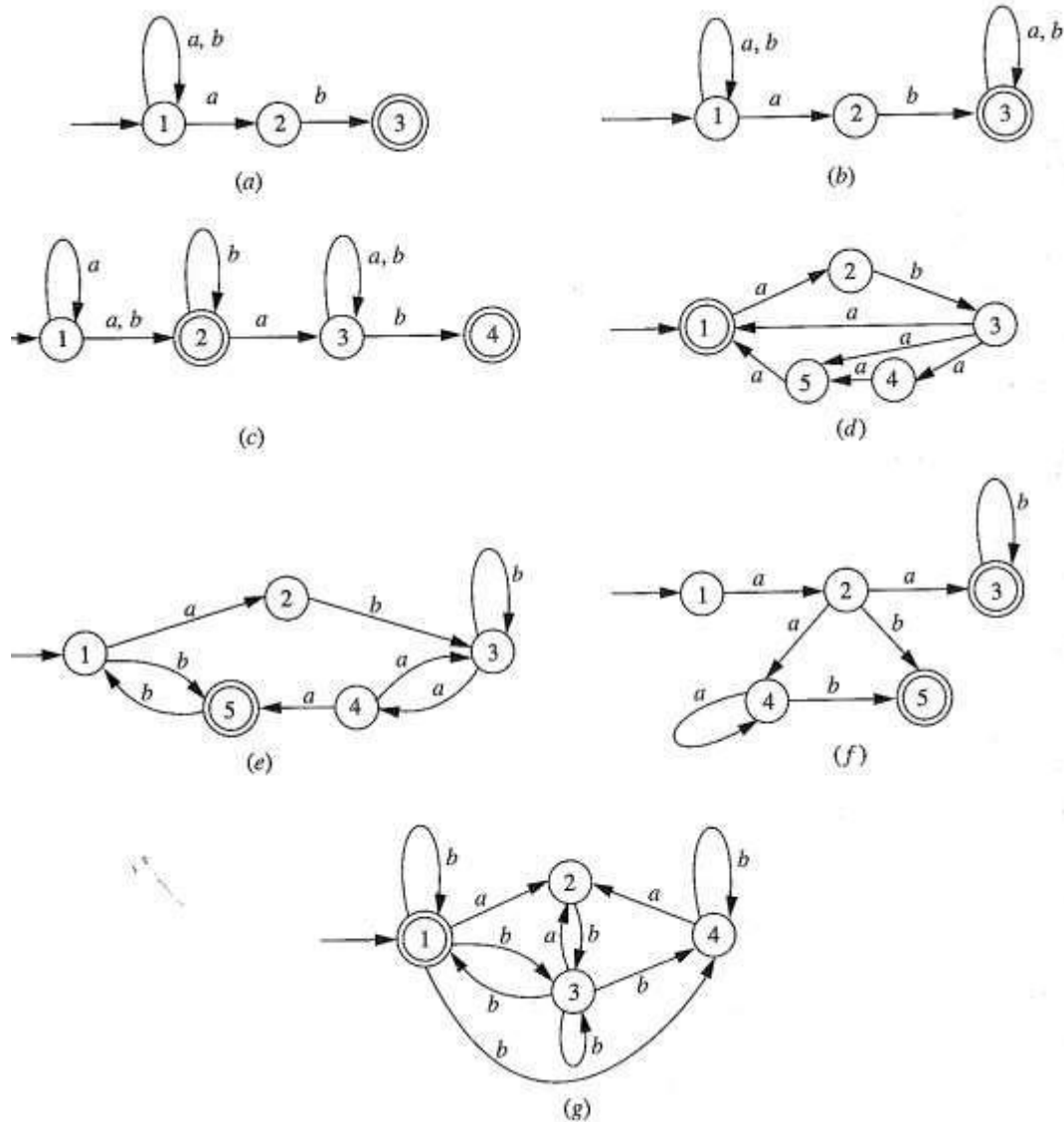# Tutorial No 4 Non Deterministic Finite Automata

Q.1 In the NFA given below, Calculate each of the following:
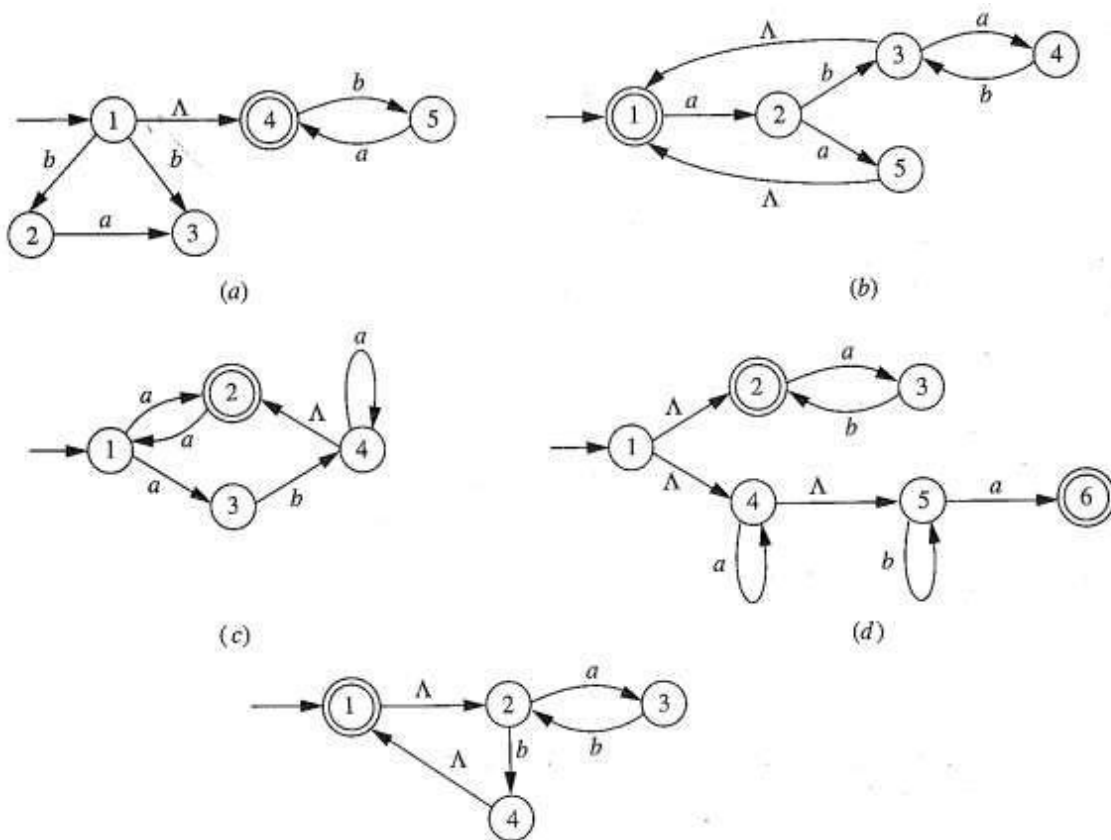
a. $\delta^*(1, bb)$

b. $\delta^*(1, bab)$

c. $\delta^*(1, aabb)$

d. $\delta^*(1, aabbab)$

e. $\delta^*(1, aba)$

Q:2 Convert the following NFA to DFA

(a)

(b)

(c)

(d)

(e)

(f)

(g)

(a)

(b)

(c)

(d)

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