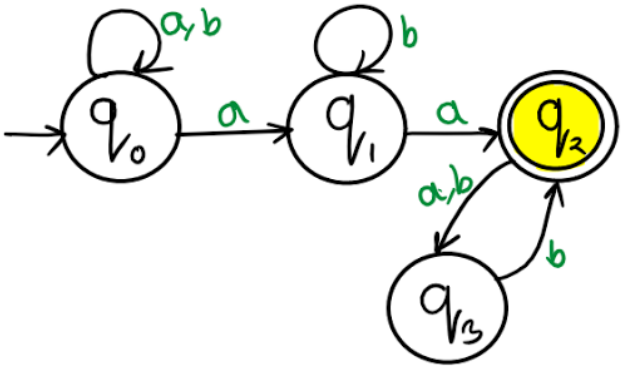
RGPV 2009

Q. Construct minimized DFA for the given NFA.

Or

Convert the following NFA into DFA.



Ans.

Transition table for given NFA

State	Input a	B
è q0	q0, q1	q0
q1	q2	q1
q2	q3	q3
q3	–	q2

Transition table for DFA from given NFA table

State	Input a	B
è [q0]	[q0, q1]	[q0]
[q0, q1]	[q0, q1, q2]	[q0, q1]

[q0, q1, q2]	[q0, q1, q2, q3]	[q0, q1, q2]
[q0, q1, q2, q3]	[q0, q1, q2, q3]	[q0, q1, q2, q3]
[q0, q1, q2]	[q0, q1, q2]	[q0, q1, q2]

Transition diagram for DFA from above DFA transition table

