

① (a) Design a DFA which accepts $L(M) = \{w \mid w \in \{0,1\}^*\}$ and is in a state that does not contain consecutive '1's.
 (b) Design a DFA, the language recognize by automata being $L = \{a^n b \mid n \geq 0\}$

② Construct the DFA from given NFA

Present state

Next state (0)

Next state (1)

$\rightarrow q_0$

$q_0 \rightarrow q_1$

q_0

q_1

q_2

q_1

q_2

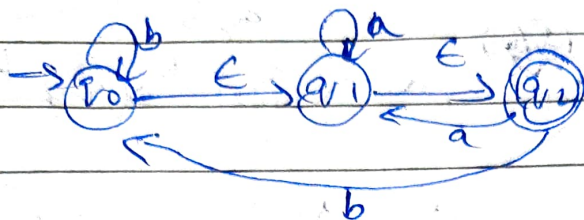
q_3

q_3

Good Write $\textcircled{13}$

q_2

Ques Construct NFA with the ϵ moves to its DFA



Ques find mealy machine eq. to following moore machine

Present	Next(0)	Next(1)	Output
q_0	q_3	q_1	0
q_1	q_1	q_2	1
q_2	q_2	q_3	0
q_3	q_3	q_0	0

5) (a) Diff. b/w DFA & NFA

(b) Construct Minimum State Automata equivalent to finite automata given in Diagram.

