(b)

The language $L = L(1^*0^*1^*)$

Let NFA M recognise $L = L(M)$, M has:

- states $Q = \{q_0, q_1, q_2, q_3\}$
- start state $q_0 \in Q$
- accept states $A = \{q_0, q_3\}$
- transition function δ :

Input State	Letter	Output State
q_0	1	q_1
q_0	0	q_2
q_1	1	q_1
q_1	0	q_2
q_1	ϵ	q_3
q_2	0	q_2
q_2	1	q_3
q_3	1	q_3