Assignment
(2)

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Section: 04

Ans. to the ques. No. 1 (a)
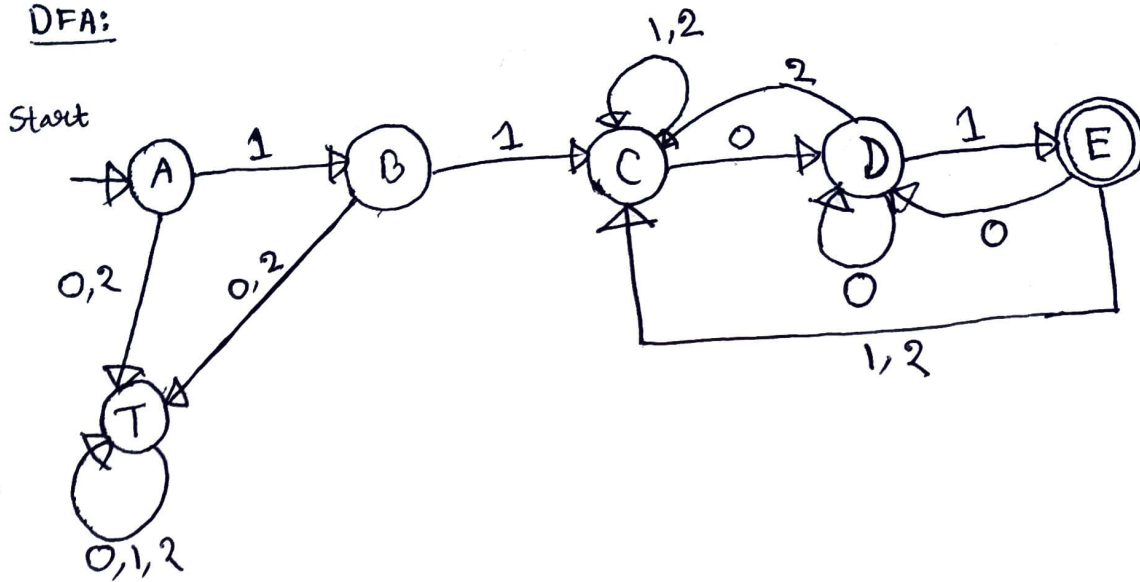
DFA:

Table:

	0	1	2
→A	T	B	T
B	T	C	T
C	D	C	C
D	D	E	C
*E	D	C	C
T	T	T	T

Final state = {E}

Ans. to the ques No. 1 (b)

DFA:
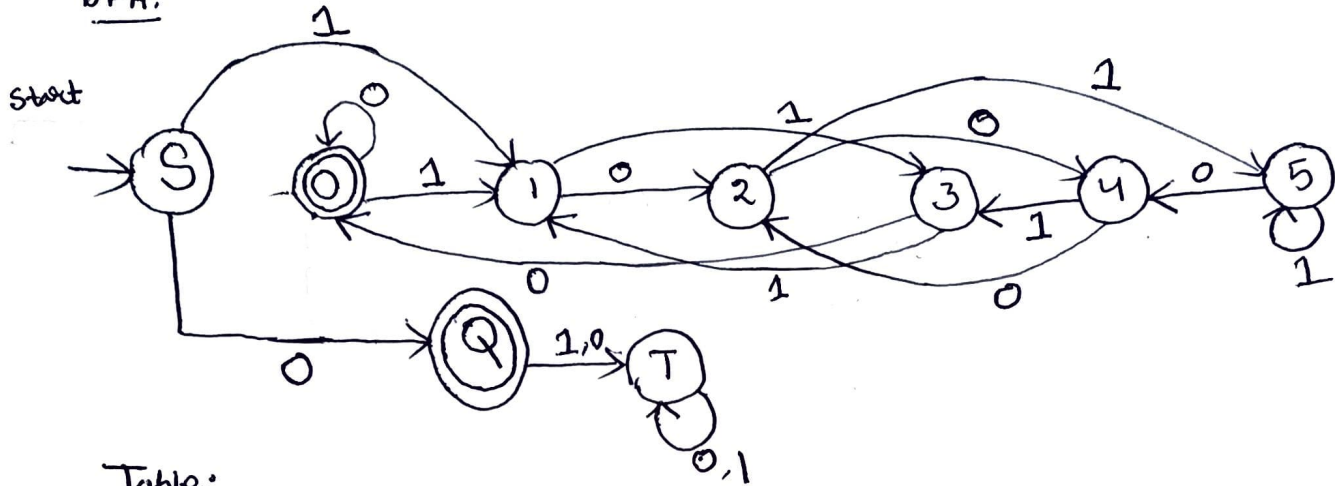
Table:

	O	1
→S	Q	1
*Q	T	T
T	T	T
*O	O	1
1	2	3
2	4	5
3	O	1
4	2	3
5	4	5

Final state = $\{O, Q\}$

DFA:

Start
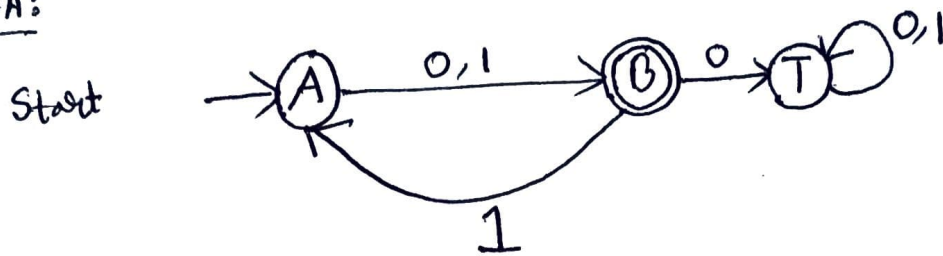
Table:

	0	1
→A	B	B
*B	T	A
T	T	T

Final state = {B}

Ans. to the ques. No:- 1 (d)

DFA:

Start

A (with self-loop 1) →0→ B (with self-loop 1) →0→ C (with self-loop 1) →0→ D (with self-loop 0,1)
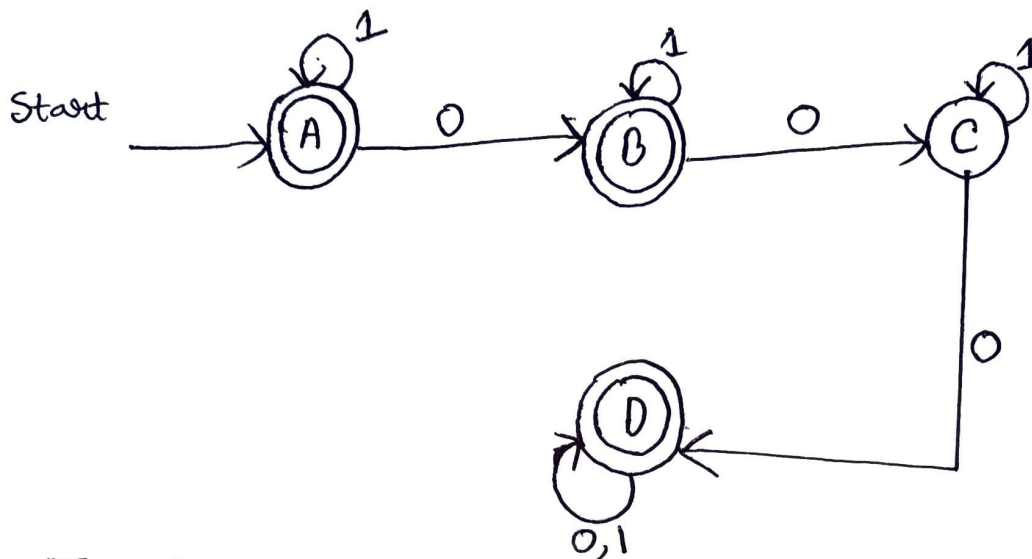
Table:

	0	1
→*A	B	A
*B	C	B
C	D	C
*D	D	D

Final state = {A, B, D}

DFA:
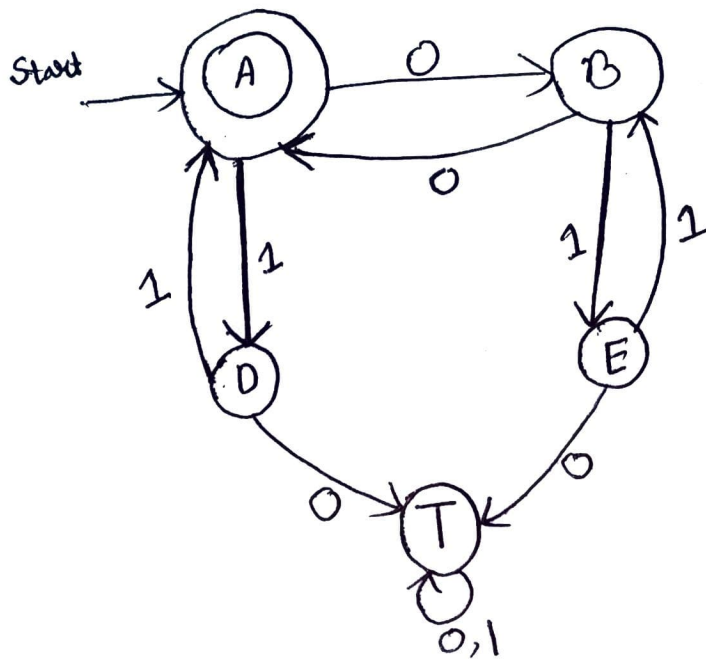
Table:

	0	1
→*A	B	D
B	A	E
D	T	A
E	T	B
T	T	T

Final state = {A}