

7-9.

- a) 0000, 1000, 1100, 1110, 1111, 0111, 0011, 0001, 0000  
b) # States =  $2n$

7-18.

Present state			Next state		
A	B	C	A	B	C
0	0	0	0	0	1
0	0	1	0	1	1
0	1	0	1	0	0
0	1	1	0	1	0
1	0	0	1	1	0
1	1	0	0	0	0

$$D_A = \overline{A}B\overline{C} + A\overline{B}$$

$$D_B = C + A\overline{B}$$

$$D_C = \overline{A}\overline{B}$$