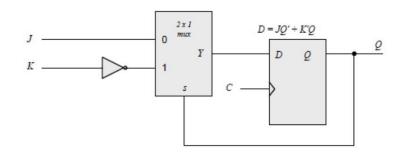
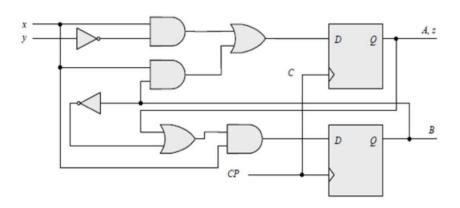
5.2



5.6



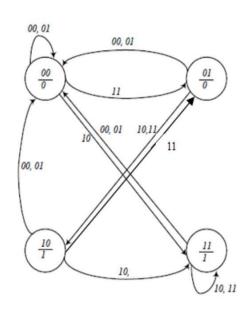
(b) 
$$A(t+1) = xy' + xB$$

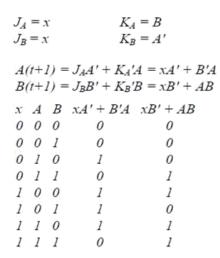
$$B(t+1) = xA + xB'$$

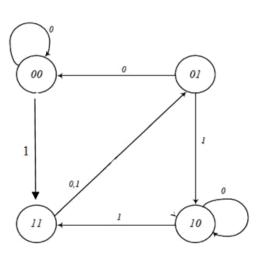
$$z = A$$

Present	state	funde	cundus.	Next	state	Output
A 0 0 0 0 0 0 0 0 0 1 1 1 1 1 1	В	x	y	A 0 0 0 0 0 1 1 0 0 0 0 1 1 1 1	B	z
0	0	0	0	0	0 0	0
0	0	0	1	0	0	0
0	0	1	0	1	1	0
0	0	1	1	0	1	0
0	1	0	0	0	0	0
0	1	0	1	0	0	0
0	1	1	0	1	0	0
0	1	1	1	1	0	0
1	0	0	0	0	0	1
1	0	0	1	0	0	1
1	0	1	0	7	1	1
1	0	1	1	0	1	1
1	1	0	0	0	0	1
1	0 0 0 0 0 1 1 1 1 1 0 0 0 0	000111000111101111111111111111111111111	1 0 1 0 1 0 1 0 1 0 1 0 1	0	1 1 0 0 0 0 0 0 1 1 1	0 0 0 0 0 0 0 0 0 0 0 0 0 1 1 1 1 1 1 1
1	1	1	0	1	1	1
1	1	1	1	1	1	1

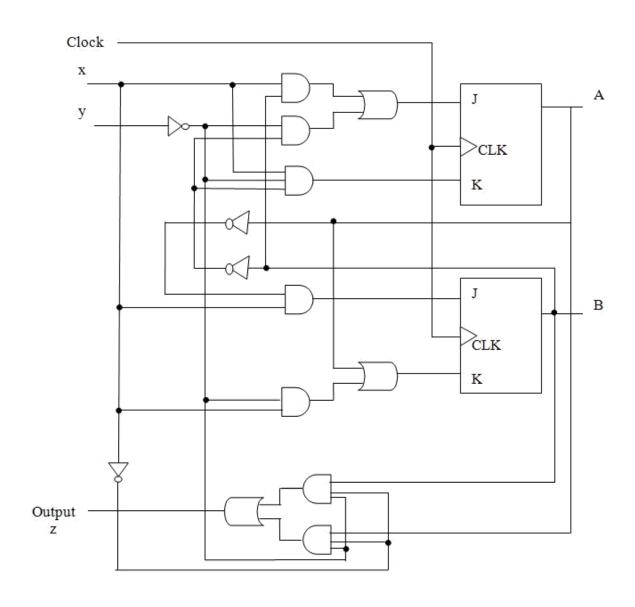
(c)





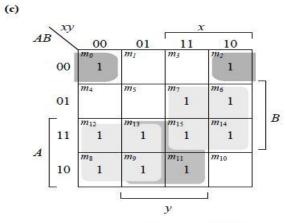


5.10 (a) 
$$J_A = Bx + B'y'$$
  $J_B = A'x$   $K_A = B'xy'$   $K_B = A + xy'$   $Z = Ax'y' + Bx'y'$ 

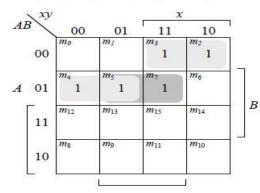


## A(t+1)=(Bx+B'y')A'+(B'xy')'AB(t+1)=A'xB'+(A+xy')'B

> Present	state		upurs	Next	state	Output		outs		
A	В	X	y	A	B	Z	JA	$\Lambda_A$	JB	КВ
0	0	0	0	1	0	0	1	0	0	0
0	0	0	1	0	0	0	0	0	0	0
0	0	1	0	1	1	0	1	1	1	1
0	0	1	1	0	1	0	0	0	1	0
0	1	0	0	0	1	1	0	0	0	0
0	1	0	1	0	1	0	0	0	0	0
0	1	1	0	1	0	0	1	0	1	1
0	1	1	1	1	1	0	1	0	1	0
1	0	0	0	1	0	1	1	0	0	1
1	0	0	1	1	0	U	0	0	0	1
1	0	1	0	0	0	0	1	1	0	1
1	0	1	1	1	0	0	0	0	0	1
1	1	0	0	1	0	1	0	0	0	1
1	1	0	1	1	0	0	0	0	0	1
1	1	1	0	1	0	0	1	0	0	1
1	1	1	1	1	0	0	1	0	0	1

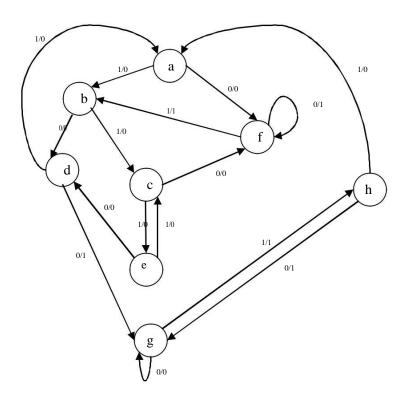


$$A(t+1) = Ax' + Bx + Ay + A'B'y'$$



$$B(t+1) = A'B'x + A'B'(x'+y)$$

5.12 (a)



**(b)** 

Present	Next state	Output
state	0 1	0 1
а	f b	0 0
b	d a	0 0
d	g a	1 0
f	f $b$	1 1
g	g d	0 1

