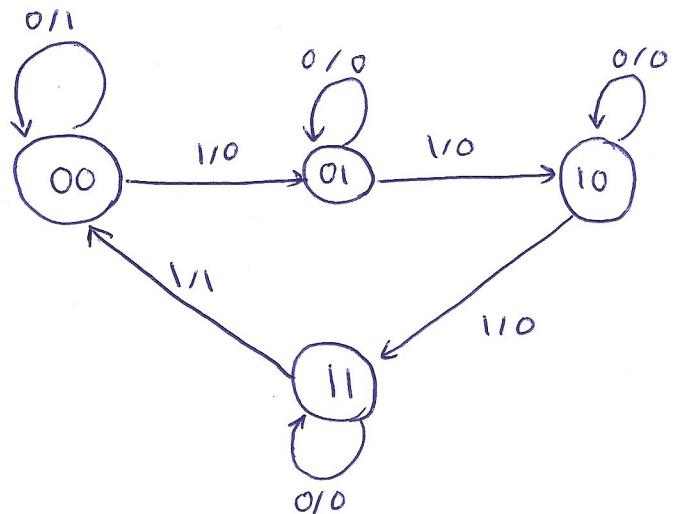


جواب سوال اسکت (a)

دیکریم و میر

state Diagram

Mealy Machine



فرود و میر

present state AB	input X	next state A B	out put Z
00	0	00	1
00	1	01	0
01	0	01	0
01	1	10	1
10	0	10	0
10	1	11	0
11	0	11	0
11	1	00	1

(راهنمای جواب در صفحه بعد)

AB	X	0	1
00		0	0
01		0	0
11		0	0
10		0	0

JK FF (اول) بت جو

AB	X	0	1
00		0	0
01		0	1
11		0	0
10		0	1

JK FF (اول) بت کو

$$J_0 = 0$$

$$K_0 = A'BX + AB'X$$

AB	X	0	1
00		0	1
01		0	0
11		0	1
10		0	0

AB	X	0	1
00		0	0
01		0	1
11		0	0
10		0	1

JK FF (دو) بت جو

JK FF (دو) بت کو

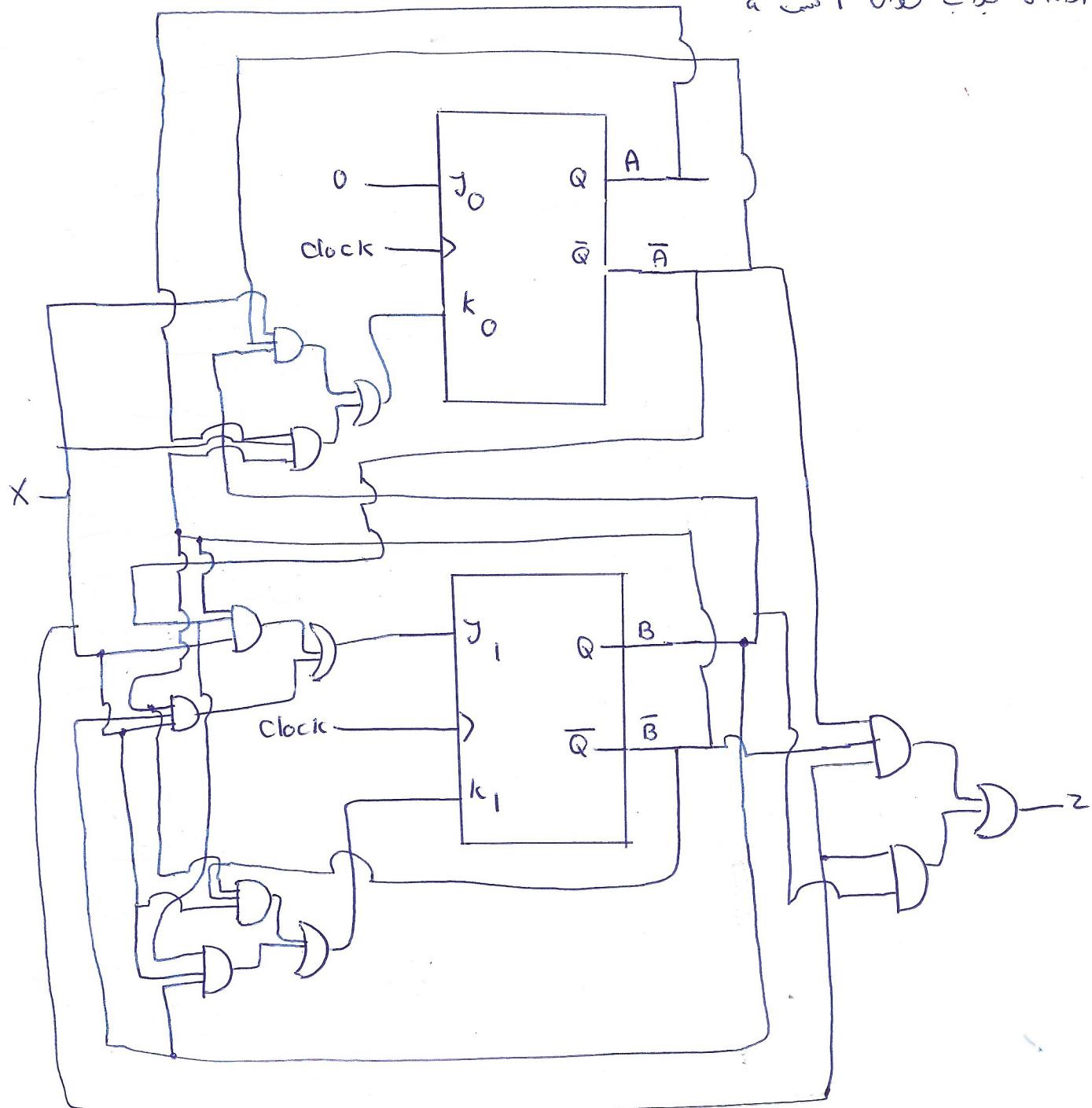
$$J_1 = A'B'X + ABX$$

$$K_1 = A'BX + AB'X$$

J ₀	K ₀	J ₁	K ₁
0	X	0	X
0	X	1	X
0	X	X	0
1	X	X	1
X	0	0	X
X	0	1	X
X	0	X	0
X	1	X	1

جدول کریک

ادامه جواب سؤال اول است

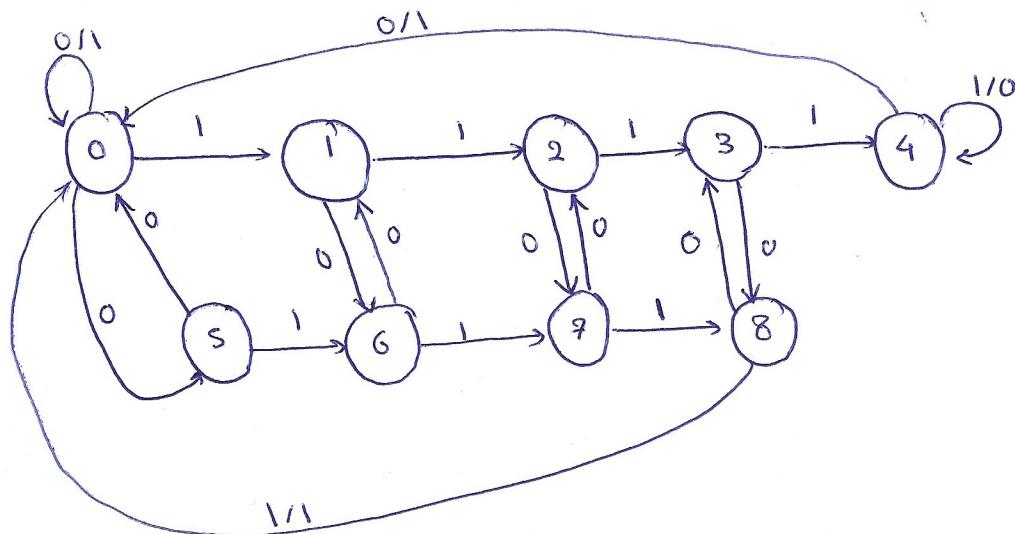


X	AB	00	01	11	10
0	0	1	0	0	0
1	1	0	1	1	0

$$Z = BX + A'B'X$$

ادامه جواب سؤال در صفحه بعد

(b) جواب سؤال اع۱ست b



present state $P_3\ P_2\ P_1\ P_0$ A B C D	next state		output z	
	$x=0$	$x=1$	$x=0$	$x=1$
0 0 0 0	0 0 0 0	0 0 0 1	1	0
0 0 0 1	0 1 1 0	0 0 1 0	0	0
0 0 1 0	0 1 1 1	0 0 1 1	0	0
0 0 1 1	1 0 0 0	0 1 0 0	0	0
0 1 0 0	0 0 0 0	0 1 0 0	1	0
0 1 0 1	0 0 0 0	0 1 1 0	0	0
0 1 1 0	0 0 0 1	0 1 1 1	0	0
0 1 1 1	0 0 1 0	1 0 0 0	0	0
1 0 0 0	0 0 1 1	0 0 0 0	0	1

ارائه جواب سؤال اع۱ست b در صفحه ۵

اداہن جواب سؤال ۱ صست ۶

		$X = 0$				
		00	01	11	10	
AB	CD	00	0	0	1	0
		01	0	0	0	0
11	X	X	X	X		
10	0	X	X	X	X	

		$X = 1$				
		00	01	11	10	
AB	CD	00	0	0	0	0
		01	0	0	1	0
11	X	X	X	X		
10	0	X	X	X	X	

(A) بیت اول

(j)

$$J_3 = \bar{B}CD\bar{X} + BCDX$$

 $X = 0$

		$X = 0$			
		00	01	11	10
AB	CD	00	0	0	0
		01	0	0	0
11	X	X	X	X	
10	1	X	X	X	X

		$X = 1$			
		00	01	11	10
AB	CD	00	0	0	0
		01	0	0	0
11	X	X	X	X	
10	1	X	X	X	X

(A) بیت اول

(k)

$$K_3 = A$$

$$X = 0$$

AB \ CD		X = 0			
		00	01	11	10
AB	00	0	1	0	1
	01	0	0	0	0
	11	X	X	X	X
	10	0	X	X	X

$$X = 1$$

AB \ CD		X = 1			
		00	01	11	10
AB	00	0	0	1	0
	01	0	0	0	0
	11	X	X	X	X
	10	0	X	X	X

J
(B) میں

$$J_2 = \bar{B}CDX + \bar{B}C\bar{D}\bar{X} + \bar{B}\bar{C}D\bar{X}$$

$$X = 0$$

AB \ CD		X = 0			
		00	01	11	10
AB	00	0	0	0	0
	01	1	1	1	1
	11	X	X	X	X
	10	1	X	X	X

$$X = 1$$

AB \ CD		X = 1			
		00	01	11	10
AB	00	0	0	0	0
	01	0	0	1	0
	11	X	X	X	X
	10	1	X	X	X

K

(B) میں

$$k_2 = \bar{A}B\bar{X} + BC\bar{D}X$$

ارقام حساب سوالات

اپنے جواب سے ایسا ہے

$X=0$

$AB \backslash CD$	00	01	11	10
00	0	1	0	0
01	0	0	0	0
11	x	x	x	x
10	1	x	x	x

$X=1$

$AB \backslash CD$	00	01	11	10
00	0	1	0	0
01	0	1	0	0
11	x	x	x	x
10	0	x	x	x

y

$$j_1 = A \bar{X} + \bar{C}D \bar{X} + \bar{A}\bar{B}\bar{C}D$$

$X=0$

$AB \backslash CD$	00	01	11	10
00	0	0	1	0
01	0	0	0	1
11	x	x	x	x
10	0	x	x	x

$X=1$

$AB \backslash CD$	00	01	11	10
00	0	0	1	0
01	0	0	1	0
11	x	x	x	x
10	0	x	x	x

k

$$k_1 = CD \bar{X} + BC \bar{D} \bar{X} + \bar{A} \bar{B} C D$$

اپنے جواب سے ایسا ہے

b ماتریس ایجاد کنید

 $\bar{X} = 0$

AB \ CD	00	01	11	10
00	1	0	0	1
01	0	0	0	1
11	X	X	X	X
10	1	X	X	X

 $\bar{X} = 1$

AB \ CD	00	01	11	10
00	0	0	0	1
01	0	0	0	1
11	X	X	X	X
10	0	X	X	X

J

$$J_0 = A\bar{X} + C\bar{D} + BD\bar{X}$$

 $\bar{X} = 0$

AB \ CD	00	01	11	10
00	0	1	1	0
01	0	0	1	0
11	X	X	X	X
10	0	X	X	X

 $\bar{X} = 1$

AB \ CD	00	01	11	10
00	0	1	1	0
01	0	1	1	0
11	X	X	X	X
10	0	X	X	X

K

$$K_0 = CD + D\bar{X} + \bar{B}D$$

(لامن جواب میان است b)

$$\bar{X} = 0$$

		CD			
		A B			
		00	01	11	10
00		1/0	0/4	X	0
01		1/1	0/5	X	X
11		0/3	0/7	X	X
10		0/2	0/6	X	X

$$\bar{X} = 1$$

		CD			
		A B			
		00	01	11	10
00		0	0	X	0
01		0	0	X	X
11		0	0	X	X
10		1	0	X	X

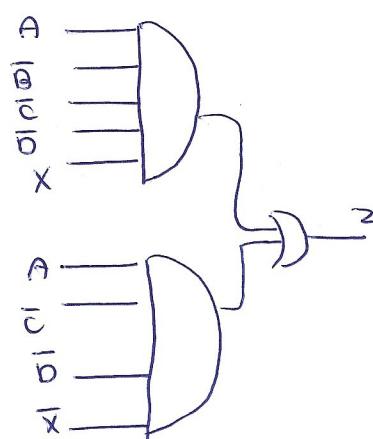
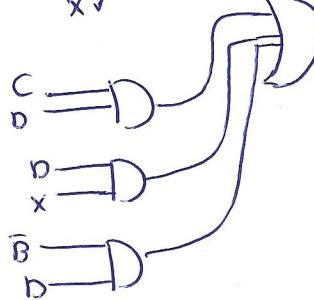
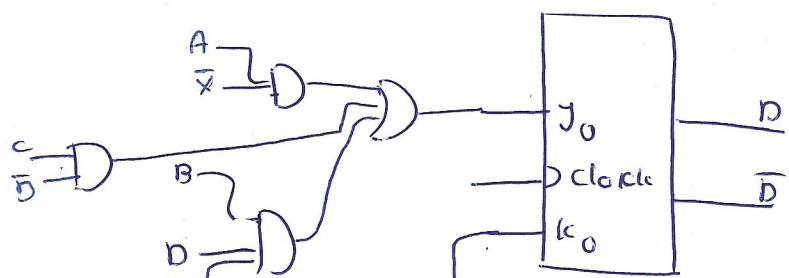
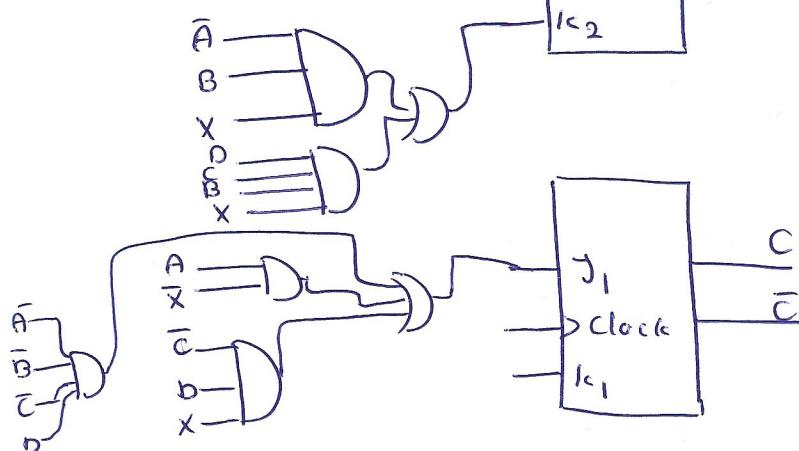
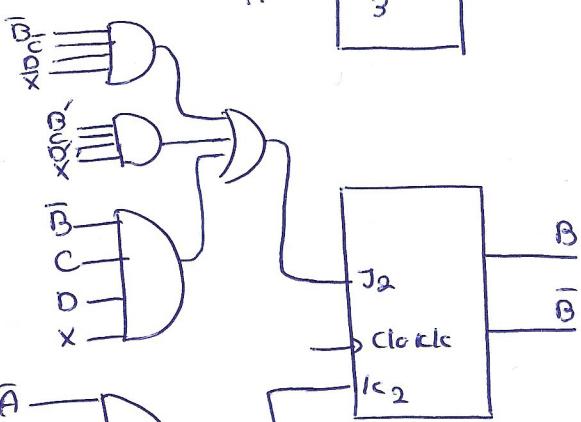
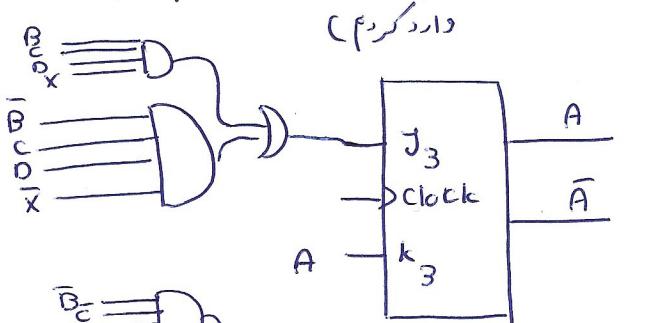
$$Z = A \bar{B} \bar{C} \bar{D} X + A \bar{C} \bar{D} \bar{X}$$

خرمی

(لامن جواب در صفحه بعد)

(بررسی شعاعی که از گذین)

سیم ها صرف نظر کردن و بصرت دسته ای

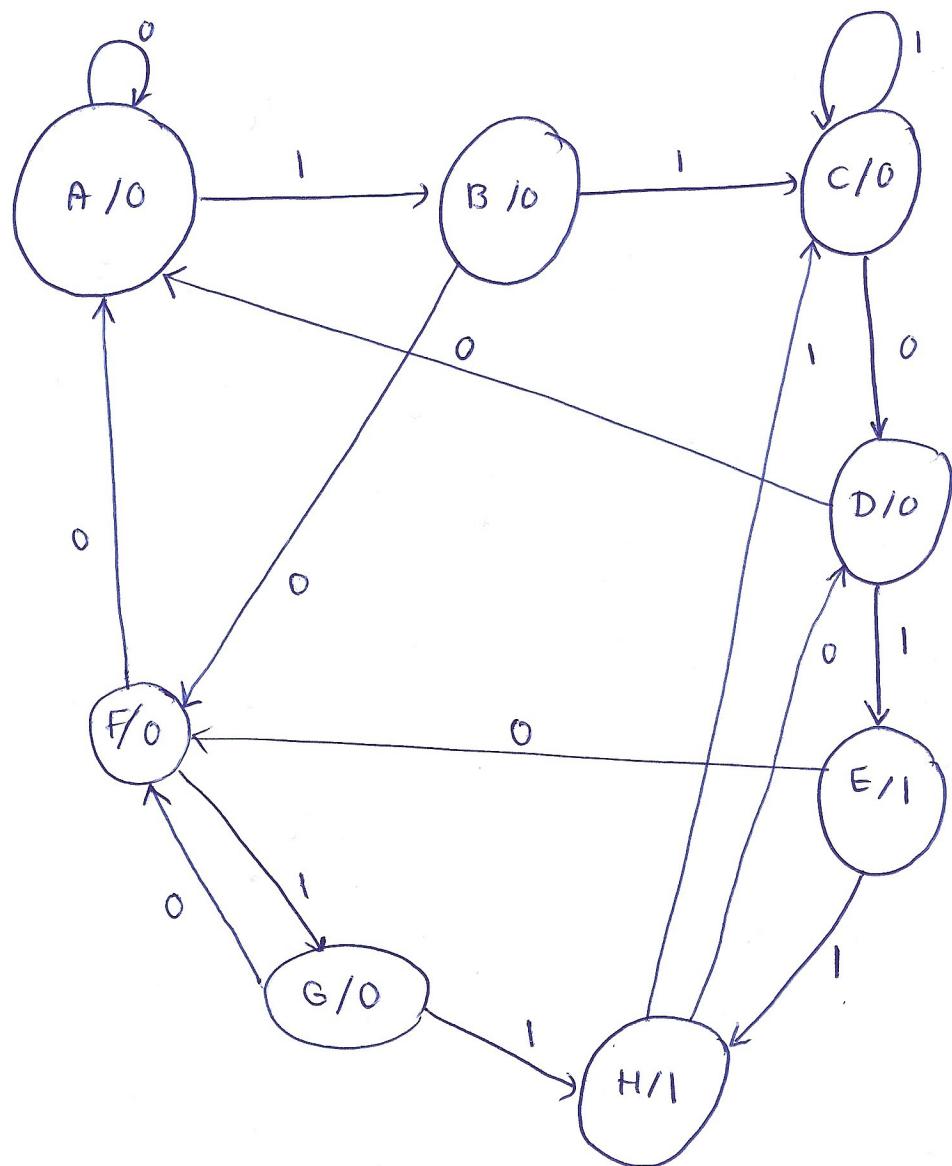


حذاب مقاله ۲

توافر

1101 یا 1011

Moore حالت دایرکت



اراضی قدرت مقاله ۳ در مفهوم نظر

Present State $P_{S_2} P_{S_1} P_{S_0}$	Next State		Output w
	$a=0$	$a=1$	
0 0 0	000	001	0
0 0 1	101	010	0
0 1 0	011	010	0
0 1 1	000	100	0
1 0 0	101	111	1
1 0 1	000	110	0
1 1 0	101	111	0
1 1 1	011	010	1

T Flip Flop Table.

T	$Q(t)$
0	$Q(t)$
1	$\overline{Q}(t)$

excitation table

Q	Q^+	T	J_{10}
0	0	0	
0	1	1	
1	0	1	
1	1	0	

العنوان و المدخلات

(مذکور است و مذکور نیست)

$P_{S_0} \alpha$

P_{S_1}

	00	01	11	10
00	0	0	0	1
01	0	0	1	0
11	0	0	1	1
10	0	0	0	1

T_2 مذکور : $T_2 = P_{S_0} \alpha P_{S_1} + P_{S_0} \bar{\alpha} P_{S_2} + P_{S_0} \bar{\alpha} \bar{P}_{S_1}$

 P_{S_2} مذکور

T_1 مذکور : $T_1 = P_{S_0} \bar{P}_{S_2} P_{S_1} + P_{S_0} \alpha \bar{P}_{S_2} + \alpha P_{S_2} \bar{P}_{S_1}$
 $+ \bar{P}_{S_0} \bar{\alpha} P_{S_2} P_{S_1}$

$P_{S_0} \alpha$

$P_{S_2} P_{S_1}$

	00	01	11	10
00	0	0	1	0
01	0	0	1	1
11	1	0	0	0
10	0	1	1	0

لهم اغفر لـ، ربي رب العالمين

(2015-16 sem)

$P_{S_0} a$	00	01	11	10
$P_{S_2} P_{S_1}$	0	1	1	0
	1	0	1	1
	1	1	1	0
	1	1	1	1

$$T_0 = a \bar{P}_{S_2} \bar{P}_{S_1} + \bar{P}_{S_2} P_{S_1} \bar{a} + P_{S_2} \bar{P}_{S_0} + a \bar{P}_{S_2}$$

$$P_{S_0} a + P_{S_2} \bar{P}_{S_1}$$

$P_{S_0} a$	00	01	11	10
$P_{S_2} P_{S_1}$	0	0	0	0
	0	0	0	0
	0	0	(1) 1	1
	(1) 1	1	0	0

$$\omega = P_{S_0} P_{S_2} P_{S_1} + \bar{P}_{S_0} P_{S_2} \bar{P}_{S_1}$$

وَعِدْنَاكُمْ وَمَا عَلِمْنَا بِكُمْ

