Topic Name : Day : Time : Date : / /

CSE 206

offline-2

1) $f(A,B,C,D) = \Sigma(1,4,10,11) + D(0,2,3,5,8,14,15)$

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

$f = \bar{A}\bar{C} + AC$

Logic gates: 2 NOT, 2AND, 1OR

2) $f = (A,B,C,D,E) = \Sigma(4,5,17,19,25,27) + D(3,6,12,13,16,18,24,26,30,31)$

AB \ CDE	000	001	011	010	110	111	101	100
00			X		X		1	1
01							X	X
11	X	1	1	X	X	X		
10	X	1	1	X				

$f = A\bar{E} + \bar{A}C\bar{D}$

Logic gates: 3 NOT, 3 AND, 1 OR