Assignment

Team 44

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Course Code CSE 231.L

Section- 04

Let,

Study Table=A

Couches = B

Shelf= C

Desk= D

Α	В	С	D	Х	Min Term
0	0	0	0	0	
0	0	0	1	0	
0	0	1	0	0	
0	0	1	1	1	
0	1	0	0	0	
0	1	0	1	1	
0	1	1	0	0	
0	1	1	1	0	
1	0	0	0	0	
1	0	0	1	1	
1	0	1	0	0	
1	0	1	1	0	
1	1	0	0	0	
1	1	0	1	0	
1	1	1	0	0	
1	1	1	1	0	

Here We Find, Min Term= $Y(A,B,C,D) = \sum m (3,5,9)$

By using K Map We Find,

AB								
00	0	m0	0	m1	1	m3	0	m2
01	0	m4	1	m5	0	m7	0	m6
11	0	m12	0	m13	0	m15	0	m14
00	0	m8	1	m9	0	m11	0	m10

11

10

01

From This K Map we get,

CD

00

F = |+||+|||

= A'B'CD+A'BC'D+AB'C'D

=D (A'B'C+A'BC'+AB'C')

Logisim Diagram

