Week 9

Friday, March 26, 2021 12:37



Recitation#9: Mux Application

CS232 Spring 2021

When: March 26 at 2:00 pm

a) Given the function Z = B'C + A'BD + AB', fill in the truth-table below.

Α	В	С	D	Z
0	0	0	0	
0 0 0 0 0 0	0	0	1	
0	0	1	0	
0	0	1	1	
0	1	0	0	
0	1	0	1	
0	1	1	0	
0	1	1	1	
1	0	0	1 0	
1	0	0	1	
1	0	1	0	
1	0	1	1	
1	1	0	0	
1	1	0	1	
1	1	1	1 0	
1	1	1	1	

b) Given the truth table of part (a) implement 7 using a single 16:1 multiplexer sh

Z=BC+ABD+

Α	В	С	D	Z .
0	0	0	0	0
0	0	0	1	0
0	0	1	0	1
0	0	1	1	1
0	1	0	0	0
0	1	0	1	1
0	1	1	0	0
0	1	1	1	1
1	0	0	0	i
1	0	0	1	1
1	0	1	0	1
1	0	1	1	1

own below. Make sure to clearly label