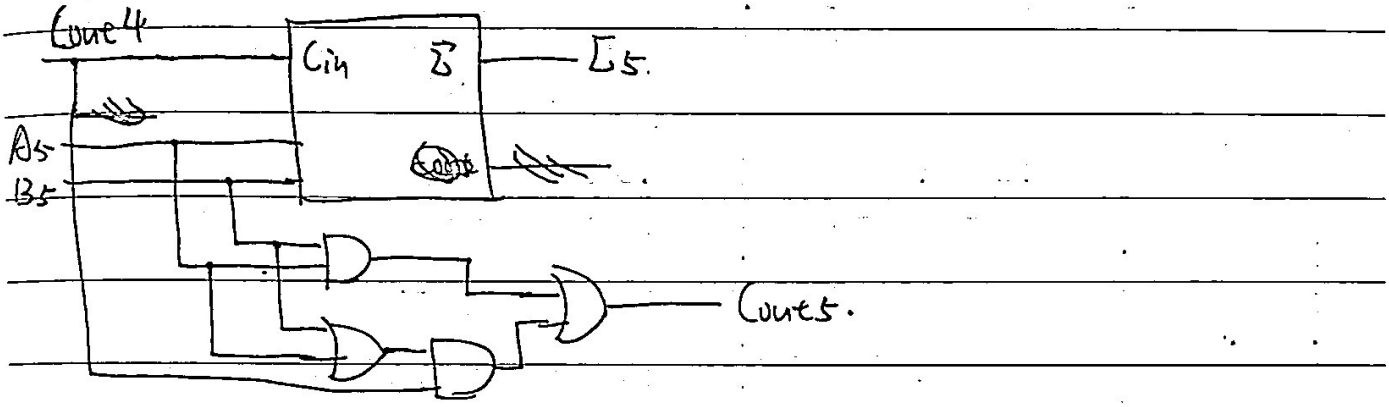
214.11

$T = 40 + 25 \times (8-2) + 35 = 225\,ns$

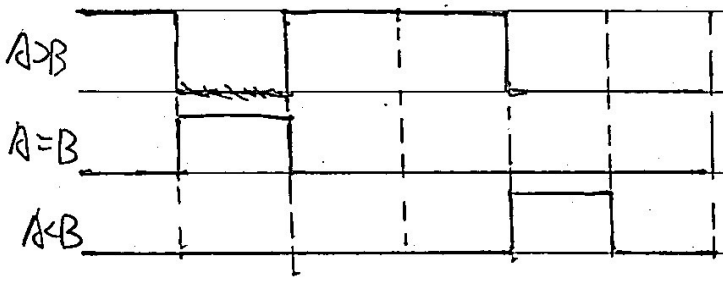
214.12

$C_{out5} = G_5 + C_{out4} \cdot P_5$

$= A_5B_5 + C_{out4} \cdot (A_5 + B_5)$



214.14

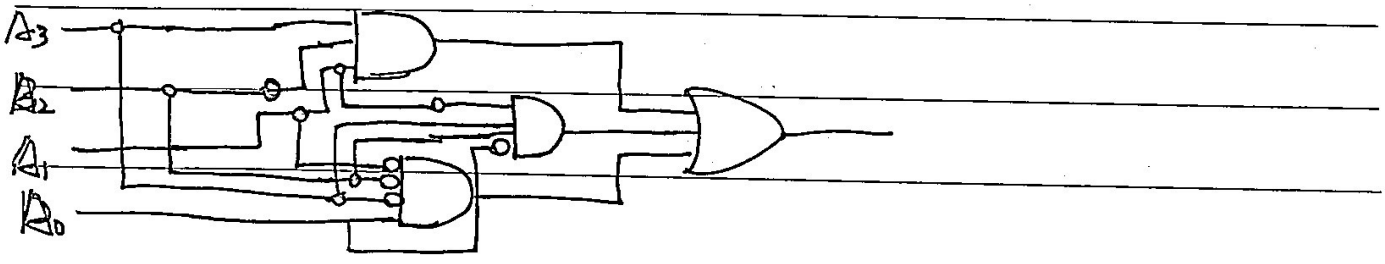


215.19

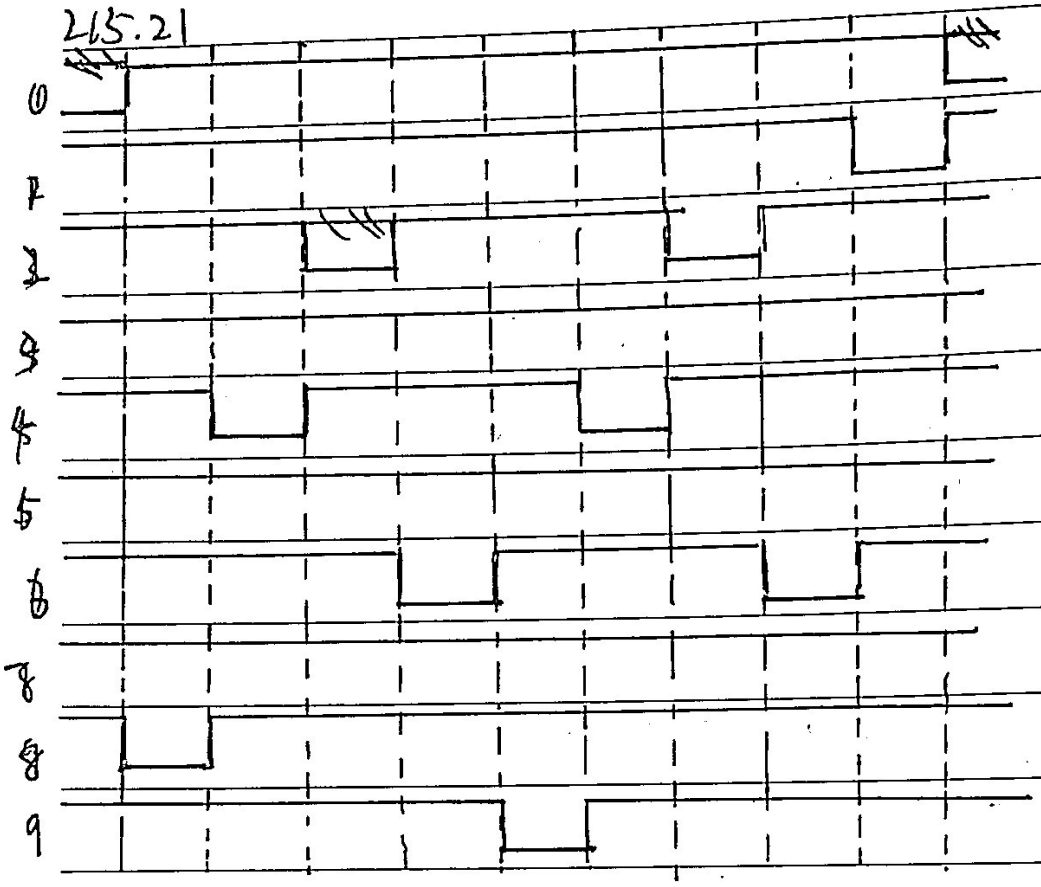
1 0 1 0
1 1 0 0
0 0 0 1
1 0 1 1

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

$= A\bar{B}C + \bar{A}\bar{B}\bar{C}D + AB\bar{C}\bar{D}$



215.21



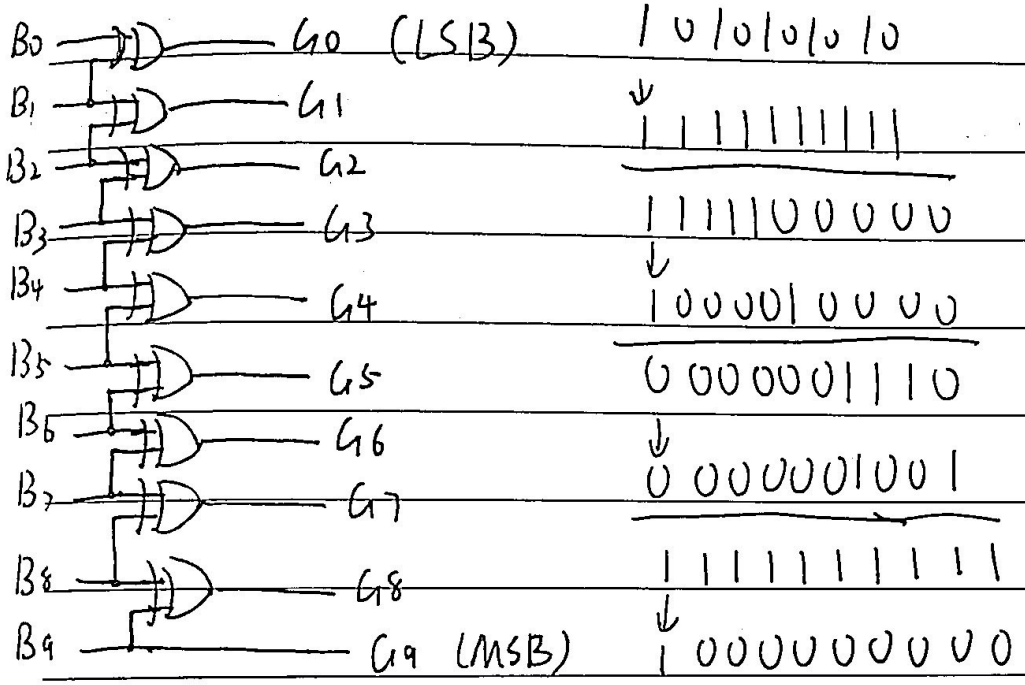
216.22

01694448O

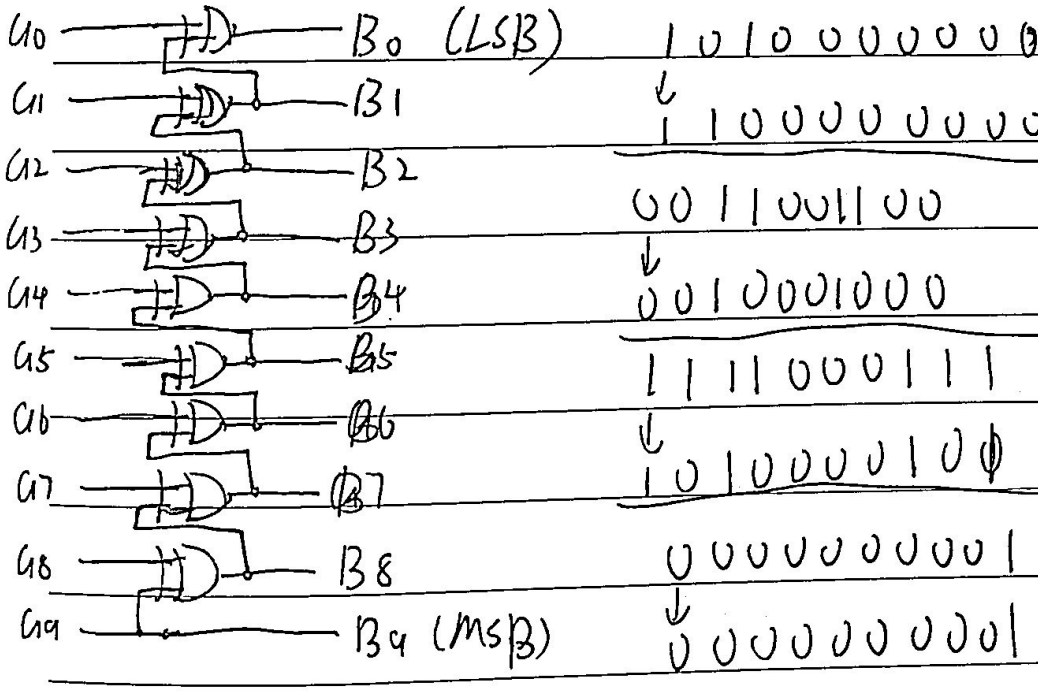
216.24

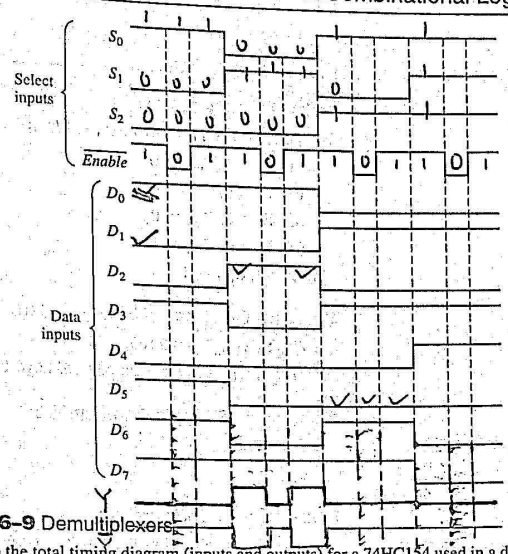
took 1000

216.26.



216.27





Section 6–9 Demultiplexers

31. Develop the total timing diagram (inputs and outputs) for a 74HC154 used in a demultiplexing application in which the inputs are as follows: The data-select inputs are repetitively sequenced through a straight binary count beginning with 0000, and the data input is a serial data stream

Se

32.

46. 28.

$S_1 S_0 = 10 = 2 = D_2$

$\therefore Y = D_2 = 1$

216. 30

On the book.

33.