

CSE-260

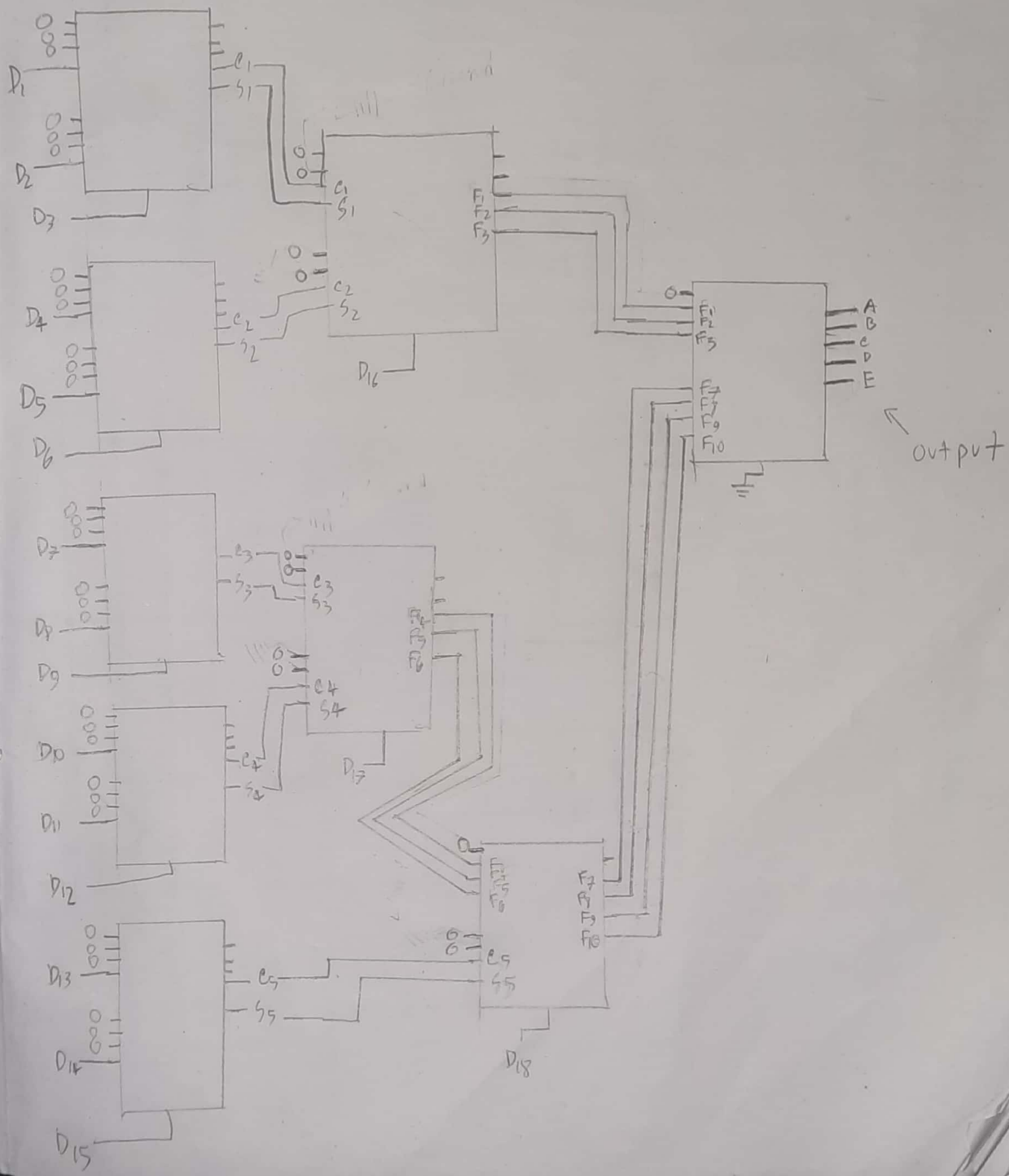
Assignment-03

Name: MD Ikramul Kayes

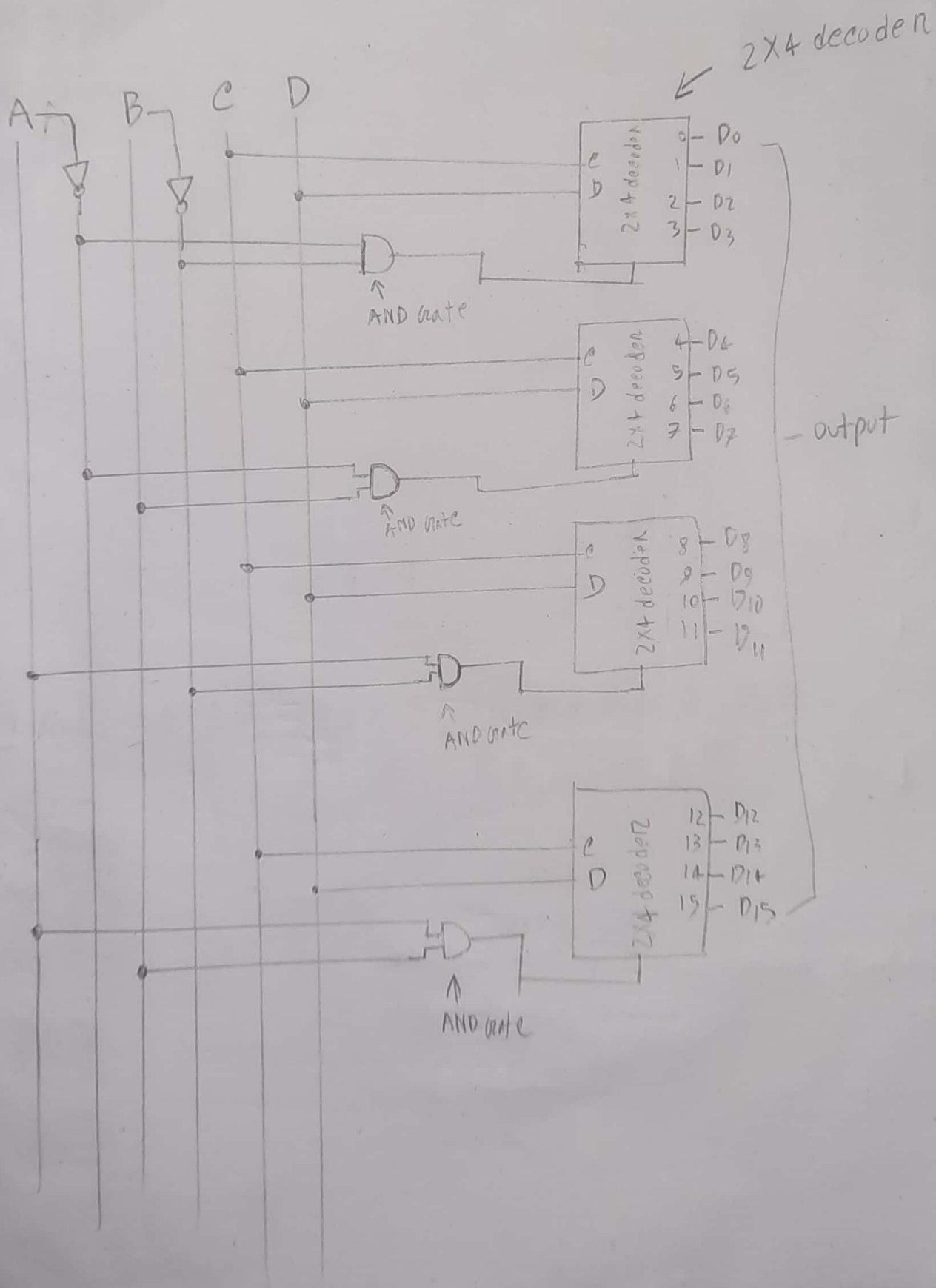
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Sec: 14

Question 1: Ans:



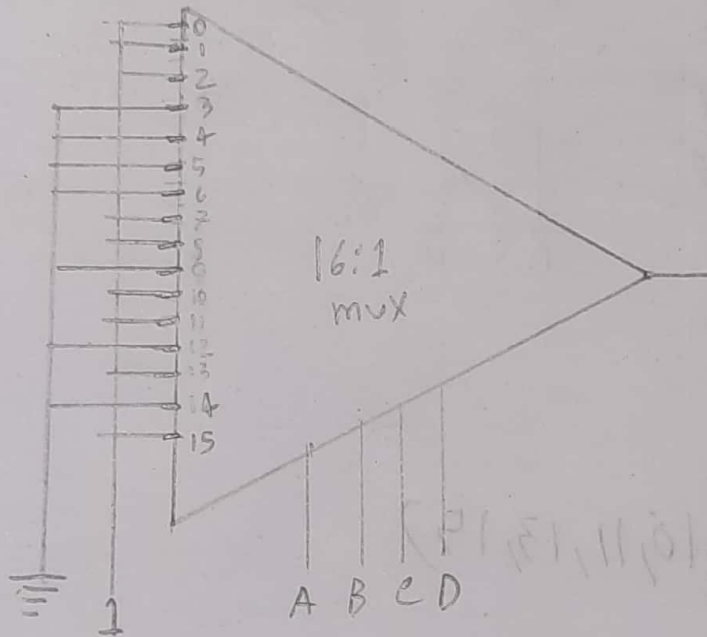
Question 2: Ans: Lets assume 4 bit number is ABCD



### Question 3:

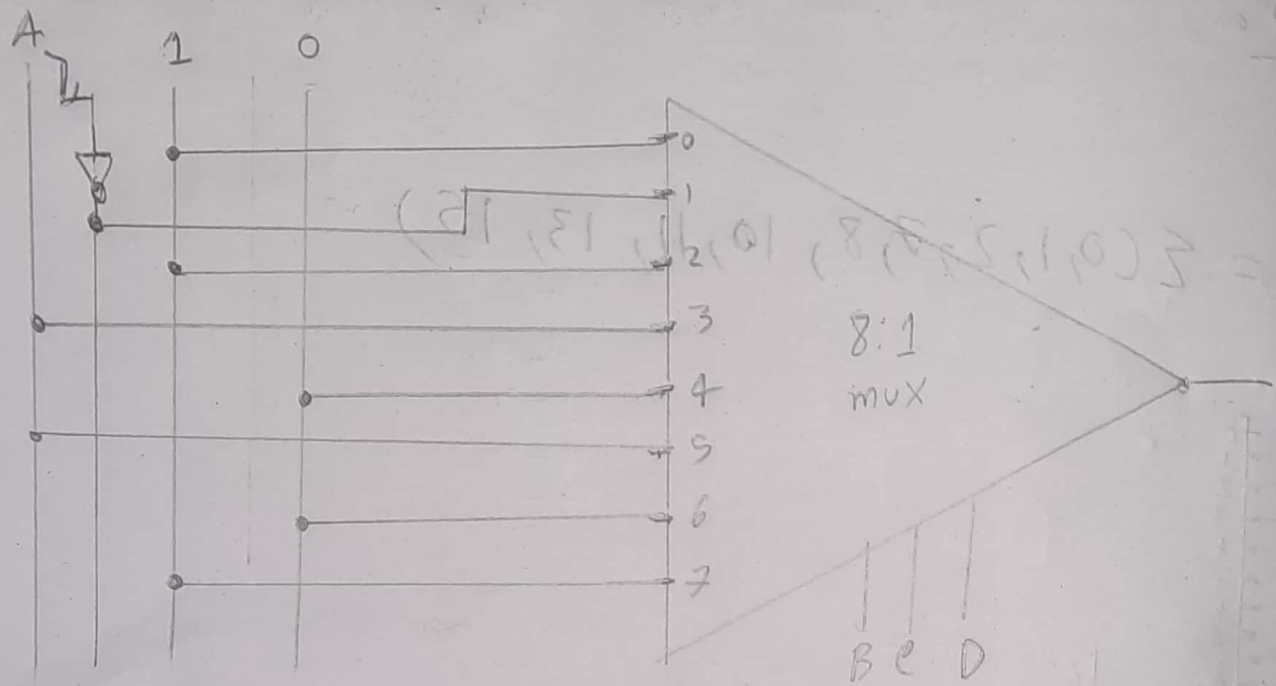
a) Ans:

$$F(A, B, C, D) = \sum(0, 1, 2, 7, 8, 10, 11, 13, 15)$$



b) Ans:  $F(A, B, C, D) = \sum(0, 1, 2, 7, 8, 10, 11, 13, 15)$

	0	1	2	3	4	5	6	7
A'	1	1	1					1
A	1		1	1		1		1
	1	A'	1	A	0	A	0	1



c)  $F(A, B, C, D) = \sum (0, 1, 2, 7, 8, 10, 11, 13, 15)$

	0	1	2	3
$A'B'$	1	1	1	
$A'B$				1
$AB'$	1		1	1
$AB$		1	1	1
$(A'B' + AB')$				
$= B'$				
$A'B' + AB$				
$= B'$				
$(A'B' + AB') + AB$				
$= A'B + A$				
$= A + B$				

