

34/60 overall

Question No.

1, A, B, C, D, E, F
10 11 12 13 14 15

1, 2, 4, 8, 16, 32, 64, 128

Examiner Only

- 1) 1) AND
2) OR
3) NOT
4) XOR
5) NAND

4/5

14 15
6 7

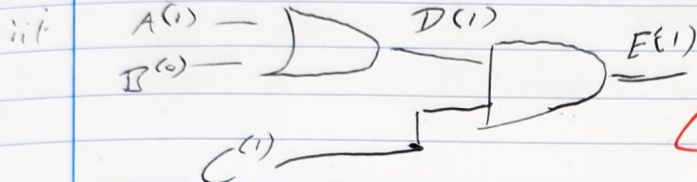
128
64
16
4
2

i) Truth table

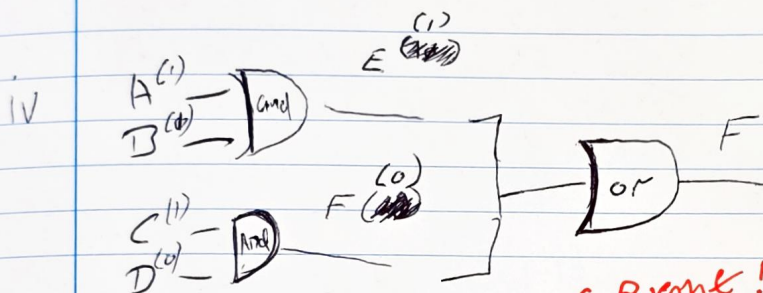
	A	B	
A	0	0	1
B	0	1	0
	1	0	0
	1	1	1

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128
64
16
8
2
128
12



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4/6

was right!

2 i a 1101 0111 - 218
0010 0000

246
- 128
118

11 b 0010 0101 - 0101 1011 - 218
1101 1010

0/2

84 - 64 = 20
20 - 16 = 4
4 - 4 = 0

ii c F - 0110 0111
EA - 0101 1110

1/2

1/2 answer is backwards!

iii d 84 - 0010 1010
246 - 1110 1111

0/2
0/2

246 - 128 = 118
118 - 64 = 54
54 - 32 = 22
22 - 16 = 6
4, 2, 1