

12/02/21

EEL5105 - Circuitos e técnicas digitais

Teoria 2

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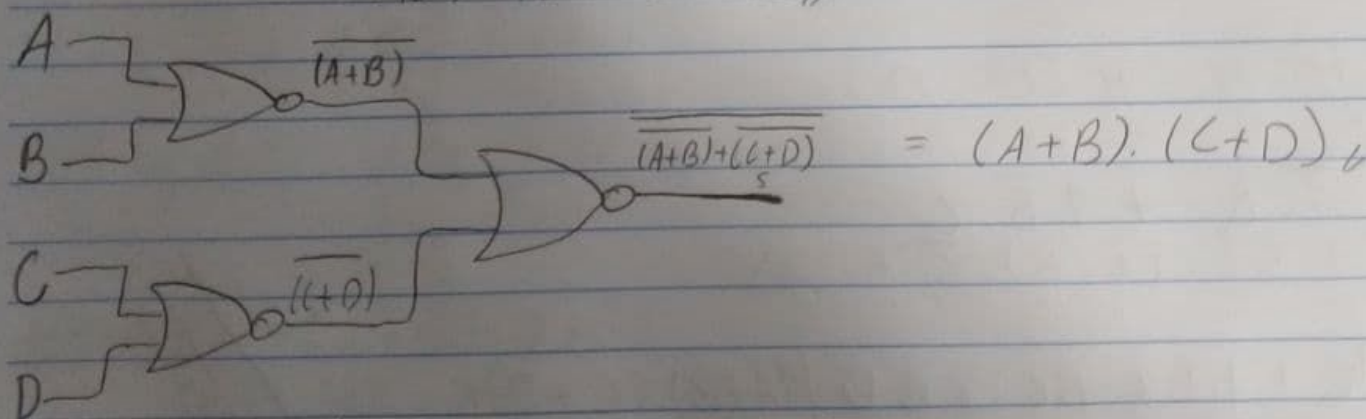
Turma: 01208B

Matrícula: 20205642

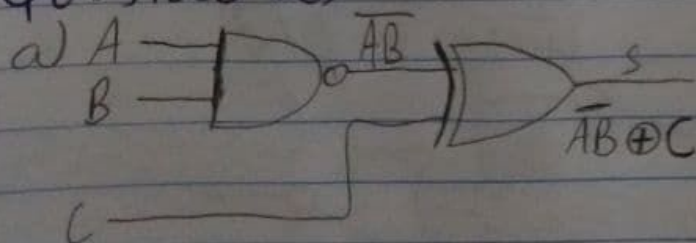
Questão 1)

$$\begin{aligned} a) F(A, B, C, D) &= \overline{(A+C)} \overline{(B+D)} \\ &= \overline{A+C} + \overline{B+D} \\ &= A\overline{C} + \overline{B}D \end{aligned}$$

$$\begin{aligned} b) F(A, B, C, D) &= (A+B)(C+D) \\ &= (C+D)A + (C+D)B \\ &= AC + AD + (C+D)B \\ &= AC + AD + BC + BD \end{aligned}$$



Questão 2)



A	B	C	\overline{AB}	S
0	0	0	1	1
0	0	1	1	0
0	1	0	1	1
0	1	1	1	0
1	0	0	1	1
1	0	1	1	0
1	1	0	0	0
1	1	1	0	1

DOM	SEG	TER	QUA	QUI	SEX	SÁB
DOM	LUN	MAR	MIÉ	JUE	VIE	SÁB
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$$\begin{aligned}
 b) F(A, B, C) &= \overline{A}B \oplus C \\
 &= ABC + \overline{A}\overline{C} + \overline{B}\overline{C} \\
 &= ABC + \overline{A}C + \overline{B}C //
 \end{aligned}$$

