

UDG

## **“Complementos a Dos (Numero 4 Bits)”**



### **TAREA 2**

**Materia:** Seminario de Solución de Problemas de Arquitectura de Computadoras

**Sección:** D10    **Calendario:** 2020-B

**Fecha:** 28/09/2020

**Profesor:** Thelma Isabel Morales Ramírez

López Arellano Ricardo David

**Tabla de verdad**

A	B	C	D	B1	B2	B3	B4
0	0	0	0	0	0	0	0
0	0	0	1	1	1	1	1
0	0	1	0	1	1	1	0
0	0	1	1	1	1	0	1
0	1	0	0	1	1	0	0
0	1	0	0	1	0	1	1
0	1	0	1	1	0	1	0
0	1	1	0	1	0	0	1
0	1	1	1	1	0	0	0
1	0	0	0	0	1	1	1
1	0	0	1	0	1	1	0
1	0	1	0	0	1	0	1
1	0	1	1	0	1	1	0
1	1	0	0	0	1	0	0
1	1	0	1	0	0	1	1
1	1	1	0	0	0	1	0
1	1	1	1	0	0	0	1

**Suma de productos**

$$\mathbf{B1= 0001+ 0010+ 0011+ 0100+ 0101+ 0110+ 0111+ 1000}$$

$$\bar{a}\bar{b}\bar{c}d + \bar{a}\bar{b}cd + \bar{a}b\bar{c}\bar{d} + \bar{a}b\bar{c}d + \bar{a}bc\bar{d} + \bar{a}bcd + a\bar{b}\bar{c}\bar{d}$$

$$\mathbf{B2= 0001+0010+0011+0100+1001+1010+1011+1100}$$

$$\bar{a}\bar{b}\bar{c}d + \bar{a}\bar{b}c\bar{d} + \bar{a}\bar{b}cd + \bar{a}b\bar{c}\bar{d} + \bar{a}b\bar{c}d + \bar{a}bc\bar{d} + \bar{a}bcd + ab\bar{c}\bar{d}$$

$$\mathbf{B3= 000+0011+0100+0111+1000+1011+1100+1111}$$

$$\bar{a}\bar{b}\bar{c}\bar{d} + \bar{a}\bar{b}cd + \bar{a}b\bar{c}\bar{d} + \bar{a}bcd + \bar{a}b\bar{c}\bar{d} + \bar{a}bcd + ab\bar{c}\bar{d} + abcd$$

$$\mathbf{B4= 0000+0010+0100+0110+1000+1010+1100+1110}$$

$$\bar{a}\bar{b}\bar{c}\bar{d} + \bar{a}\bar{b}c\bar{d} + \bar{a}b\bar{c}\bar{d} + \bar{a}bcd + \bar{a}b\bar{c}\bar{d} + \bar{a}bcd + ab\bar{c}\bar{d} + abcd$$