*Ejercicios de diseño de circuitos combinacionales y secuenciales*

|  |  |
| --- | --- |
| Fecha: |  |
| Nombre: |  |
| Carrera: |  |

Indicaciones: Según los datos de entrada, llena los campos correspondientes a los circuitos lógicos:

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| A | B | C | A’ | B’ | C’ | A’+B’ | A’+C’ | A\*B | (A’+B’)\*C’ | (A’+B’)\*C’+(A\*B) |
| 0 | 0 | 0 |  |  |  |  |  |  |  |  |
| 0 | 0 | 1 |  |  |  |  |  |  |  |  |
| 0 | 1 | 0 |  |  |  |  |  |  |  |  |
| 0 | 1 | 1 |  |  |  |  |  |  |  |  |
| 1 | 0 | 0 |  |  |  |  |  |  |  |  |
| 1 | 0 | 1 |  |  |  |  |  |  |  |  |
| 1 | 1 | 0 |  |  |  |  |  |  |  |  |
| 1 | 1 | 1 |  |  |  |  |  |  |  |  |

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| A | B | C | A’ | B’ | C’ | A’\*B’ | A’\*C’ | B’\*C’ | (A’\*B’)+(A’\*C’) | [(A’\*B’)+(A’\*C’)]\*(B’\*C’) |
| 0 | 0 | 0 |  |  |  |  |  |  |  |  |
| 0 | 0 | 1 |  |  |  |  |  |  |  |  |
| 0 | 1 | 0 |  |  |  |  |  |  |  |  |
| 0 | 1 | 1 |  |  |  |  |  |  |  |  |
| 1 | 0 | 0 |  |  |  |  |  |  |  |  |
| 1 | 0 | 1 |  |  |  |  |  |  |  |  |
| 1 | 1 | 0 |  |  |  |  |  |  |  |  |
| 1 | 1 | 1 |  |  |  |  |  |  |  |  |

Indicaciones: Utilizando logic.ly, elabora los siguientes diagramas e ingresa en la tabla los resultados correspondientes:

|  |
| --- |
| (A+B+C)’+(A\*B\*C)’ |
| /\*Agrega aquí el diagrama\*/ |

|  |  |  |  |
| --- | --- | --- | --- |
| A | B | C | (A+B+C)’+(A\*B\*C)’ |
| 0 | 0 | 0 |  |
| 0 | 0 | 1 |  |
| 0 | 1 | 0 |  |
| 0 | 1 | 1 |  |
| 1 | 0 | 0 |  |
| 1 | 0 | 1 |  |
| 1 | 1 | 0 |  |
| 1 | 1 | 1 |  |

|  |
| --- |
| (A’\*B’\*C’)’\*D+(D\*C\*B’\*A’) |
| /\*Agrega aquí el diagrama\*/ |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| A | B | C | D | (A+B+C)’+(A\*B\*C)’ |
| 0 | 0 | 0 | 0 |  |
| 0 | 0 | 0 | 1 |  |
| 0 | 0 | 1 | 0 |  |
| 0 | 0 | 1 | 1 |  |
| 0 | 1 | 0 | 0 |  |
| 0 | 1 | 0 | 1 |  |
| 0 | 1 | 1 | 0 |  |
| 0 | 1 | 1 | 1 |  |
| 1 | 0 | 0 | 0 |  |
| 1 | 0 | 0 | 1 |  |
| 1 | 0 | 1 | 0 |  |
| 1 | 0 | 1 | 1 |  |
| 1 | 1 | 0 | 0 |  |
| 1 | 1 | 0 | 1 |  |
| 1 | 1 | 1 | 0 |  |
| 1 | 1 | 1 | 1 |  |