Name and Student ID:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Lab Section:\_\_\_

Date:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**PRELAB:**

**Q1.** Fill in the Truth Table below for an AND gate:

|  |  |  |
| --- | --- | --- |
| **A** | **B** | **C** |
| 0 | 0 |  |
| 0 | 1 |  |
| 1 | 0 |  |
| 1 | 1 |  |

**Q2.** What does the .bdf file extension stand for?

**Q3.** Whatis the name of the FPGA on the DE2 board?

TA Initials: \_\_\_\_\_\_\_\_\_

**LAB:**

**2.0 Fill in the Truth Table for *lab1step1*:**

|  |  |  |
| --- | --- | --- |
| **A** | **B** | **C** |
| 0 | 0 |  |
| 0 | 1 |  |
| 1 | 0 |  |
| 1 | 1 |  |

Logic Expression: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

TA Initials: \_\_\_\_\_\_\_\_\_

**4.0 Fill in the Truth Table for *lab1step2*:**

|  |  |  |  |
| --- | --- | --- | --- |
| **W** | **X** | **Y** | **Z** |
| 0 | 0 | 0 |  |
| 0 | 0 | 1 |  |
| 0 | 1 | 0 |  |
| 0 | 1 | 1 |  |
| 1 | 0 | 0 |  |
| 1 | 0 | 1 |  |
| 1 | 1 | 0 |  |
| 1 | 1 | 1 |  |

Logic Expression: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

TA Initials: \_\_\_\_\_\_\_\_\_

**4.0 Fill in the Truth Table for *lab1step3*:**

|  |  |  |  |
| --- | --- | --- | --- |
| **A** | **B** | **C** | **F** |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

Logic Expression: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

TA Initials: \_\_\_\_\_\_\_\_\_