

# Laboratory Worksheet #01

## Number Systems Exercise

Convert the following decimal numbers to binary:

- 1) 14 \_\_\_\_\_
- 2) 189 \_\_\_\_\_
- 3) 257 \_\_\_\_\_
- 4) 472 \_\_\_\_\_

Convert the following decimal numbers to hex:

- 5) 14 \_\_\_\_\_
- 6) 189 \_\_\_\_\_
- 7) 257 \_\_\_\_\_
- 8) 472 \_\_\_\_\_

Convert the following hex numbers to decimal:

- 9) 0x37 \_\_\_\_\_
- 10) 0xAB \_\_\_\_\_
- 11) 0x0147 \_\_\_\_\_
- 12) 0x2AE1 \_\_\_\_\_

Convert the following hex numbers to binary:

- 13) 0x37 \_\_\_\_\_
- 14) 0xAB \_\_\_\_\_
- 15) 0x0147 \_\_\_\_\_
- 16) 0x2AE1 \_\_\_\_\_

Convert the following binary numbers to hex:

- 17) 0010 1101 \_\_\_\_\_
- 18) 1010 1010 \_\_\_\_\_
- 19) 1110 0011 \_\_\_\_\_
- 20) 0010 1001 1011 0101 \_\_\_\_\_

Convert the following binary numbers to decimal:

- 21) 0010 1101 \_\_\_\_\_
- 22) 1010 1010 \_\_\_\_\_
- 23) 1110 0011 \_\_\_\_\_
- 24) 0010 1001 1011 0101 \_\_\_\_\_

**When complete, include Worksheet 1 with your Laboratory 1-1 Pre-lab submission.**