

Homework 1: EE 252 Digital Electronics

Name: _____

1.- Convert the following decimal numbers into binary.

(a) $(20)_{10}$

(b) $(100)_{10}$

(c) $(129)_{10}$

(d) $(260)_{10}$

(e) $(10240)_{10}$

2.- Convert the following decimal numbers into binary.

(a) $(1000)_{10}$

(b) $(10000)_{10}$

(c) $(100000)_{10}$

(c) $(1000000)_{10}$

3.- Convert the following binary numbers into decimal.

(a) $(110010)_2$

(b) $(1100100)_2$

(c) $(11001000)_2$

(d) $(110010000)_2$

4.- What is the minimum number of bits needed to represent the following decimal numbers in binary?

(a) $(111)_{10}$

(b) $(333)_{10}$

(c) $(555)_{10}$

(d) $(1111)_{10}$