CSCI/CMPE 2333 **Spring 2019** **Mr. Carlos Pena**

In-Class Assignment (Number Systems)

Name _____ **SID (last 4 digits only)** _____

DIRECTIONS: Complete each problem as described.
IMPORTANT: For full credit, show your work for all problems (this will be worth 50% of your grade) on the back of each page; do not use calculators. Attach additional pages as needed; please label work clearly indicating your name and the assignment number.

1. Convert the following **binary (base 2)** numbers to **decimal (base 10)** values.

a. $(10110111)_2$ ANSWER: _____

b. $(01100110)_2$ ANSWER: _____

2. Convert the following **decimal (base 10)** numbers to **binary (base 2)** values.

a. $(207)_{10}$ ANSWER: _____

b. $(135)_{10}$ ANSWER: _____

3. Convert the following **hexadecimal (base 16)** numbers to **binary (base 2)** values.

a. $(2D7)_{16}$ ANSWER: _____

b. $(AC95)_{16}$ ANSWER: _____

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4. Convert the following **binary (base 2)** numbers to **hexadecimal (base 16)** values.

a. $(0101011010)_2$ ANSWER: _____

b. $(10110011)_2$ ANSWER: _____

5. Convert the following **decimal (base 10)** numbers to **hexadecimal (base 16)**.

a. $(2519)_{10}$ ANSWER: _____

b. $(247)_{10}$ ANSWER: _____

6. Convert the following **hexadecimal (base 16)** numbers to **decimal (base 10)**.

a. $(1C3E)_{16}$ ANSWER: _____

b. $(7A4)_{16}$ ANSWER: _____

Grading Criteria
You start with 100 points and then lose points according to the following criteria:
1. There is no answer nor work shown for the question: -8 points
2. Answer is incorrect, work is correct: -2 points
3. Answer is correct, work is incorrect: -4 points
4. Answer is incorrect, work is incorrect: -5 points
5. Answer is correct, no work: -6 points