

CIS 350 – INFRASTRUCTURE TECHNOLOGIES

HOMEWORK # 2

Group work (maximum 2 students)

NAME(S): _____

Do not use built-in conversion functions on your calculator! Use back page for calculations if you need.
Assume unsigned binary numbers.

Topics: Number systems and conversion between number bases

Work the following problems:

1. Convert to Binary:

decimal:	95	binary:	_____
octal:	253	binary:	_____
hexa:	B4C	binary:	_____

2. Convert to Octal:

decimal:	183	octal:	_____
binary:	11110101	octal:	_____
hexa:	AF92	octal:	_____

3. Convert to Decimal:

binary:	11101101	decimal:	_____
octal:	624	decimal:	_____
hexa:	B2A	decimal:	_____

4. Convert to Hexadecimal:

binary:	10101111001	hexa:	_____
octal:	716	hexa:	_____
decimal:	850	hexa:	_____

5. Convert Binary to Decimal and Hexa:

11101.111	decimal:	_____
11101.111	hexa:	_____

6. Convert from Decimal to Hexadecimal. If the answer is irrational, stop at four hexadecimal digits:

0.6640625	hexa:	_____
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7. Ex. 3.5, p. 92 (textbook).