

Systems Engineering Department

SE 311: Design of Digital Systems

HOMEWORK ASSIGNMENT #1

Due to : Sep 21,2004 _____ .

Instructions: read Chapter 1 and solve all the problems
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01. Convert the following numbers to decimal:
 - a. $(1253)_8$
 - b. $(BA67)_{16}$
 - c. $(10111011)_2$
 - d. $(101011.1011)_2$
 - e. $(1AE.5D)_{16}$
 - f. $(67.45)_8$

02. Convert the following numbers to binary:
 - a. $(392.1)_{10}$
 - b. $(8CA.2F)_{16}$
 - c. $(305.717)_8$

03. Convert the following numbers to hexadecimal:
 - a. $(10110.101)_2$
 - b. $(10.3)_{10}$
 - c. $(72.4)_8$
 - d. $(34106)_8$

04. Convert the following numbers to octal:
 - a. $(134.2)_{10}$
 - b. $(3AC.D)_{16}$
 - c. $(10110.10)_2$
 - d. $(1011011011)_2$

05. Add the following numbers:
 - a. Binary numbers 1011 and 0101
 - b. Hexadecimal numbers BAE and 2CA
 - c. Octal numbers 136 and 175