CS 231 Computer Organization

Quiz 1 – Monday, September 6, 2004

Name (print): _________________________________________________________

1. This is a closed book, closed note quiz. Use a pencil to complete your work. Follow
the instructions as given in the problems. Calculators are not allowed for the quiz.

PROBLEM 1: (20 pts)

Name the four fields that your Tanenbaum textbook uses to partition a memory address
for accessing a cache.

TAG, LINE, WORD, BYTE

PROBLEM 2: (20 pts)

Convert the following numbers from one notation to another.

(a) \((1010110101101)_{2}\) \((2BAD)_{16}\)

(b) \((713)_{16}\) \((1811)_{10}\)

(c) \((2B1A)_{16}\) \((25432)_{8}\)

(d) \((199)_{10}\) \((11000111)_{2}\)