

Date: Monday, January 9

Offering: Winter 2006

This assignment is due at the beginning of class, Monday, January 16. If you have any questions, see the instructor or the teaching assistant. **Make sure to show all of your work in obtaining solutions.** Simply writing down the solution is *not* enough. Note: Multiple answer sheets *must* be securely stapled. Loose sheets will *not* be accepted. Please print your name on the top of each sheet, along with your student ID.

1. Please answer the following questions from Chapter 1 of your textbook (Digital Design, 3rd Edition, Morris Mano).
 - 1-1
 - 1-3
 - 1-5(b)
 - 1-8
 - 1-11
 - 1-13
 - 1-20

2. When performing subtraction via 2's-complement addition, under what circumstances will the sum produce a carry. Explain.