University of Illinois at Urbana-Champaign
First Midterm Exam, ECE 220 Honors Section

Thursday 15 February 2018

- Be sure that your exam booklet has ELEVEN pages.
- Write your name and Net ID on the first page.
- Do not tear the exam apart other than to remove the reference sheet.
- This is a closed book exam. You may not use a calculator.
- You are allowed one handwritten 8.5×11-inch sheet of notes (both sides).
- The last page of the exam gives RTL for LC-3 instructions (except JSRR). Copies of Patt & Patel’s Appendix A are also available during the exam.
- Absolutely no interaction between students is allowed.
- Show all work, and clearly indicate any assumptions that you make.
- Don’t panic, and good luck!

Problem 1 24 points _______________________________
Problem 2 20 points _______________________________
Problem 3 20 points _______________________________
Problem 4 16 points _______________________________
Problem 5 20 points _______________________________

Total 100 points _______________________________
NOTES: RTL corresponds to execution (after fetch); JSRR not shown.