## ELE 455/555 Spring 2015

## Homework 4A

Due 2/25
Beginning of class

1A. Review the concept and implementation of a Carry-Look-Ahead adder. In your own words describe the role of the Generate function and the Propagate function and explain why they work. 10pts

2A. Create a truth table and simple logic schematic to map ALUop and funct to ALU CNTL signals for all the OPCODE = 0/ MIPS instructions. (ADD – SUBU on the left side of the MIPS Reference sheet in the book) 10pts

3A. After completion of the instruction "lw \$11,8(\$s2)" indicate the value of each data bus. Assume \$11=0x3214, \$s2=0x1124, and the instruction was located

