CS286-Computer Organization &
Architecture
Possible Quiz Questions (Quiz #3)
on February 4th, 2020

The following is a list of possible questions for our quiz on February 4th. Some of the questions will not be asked in the quiz. All the questions that will appear in the quiz will appear exactly as shown below (however, numeric parameters may be changed). The quiz is closed textbook, closed notes and closed neighbors. Note that the questions, which did not appear in this quiz, still may appear in the exams. You will find a solution for these questions during lectures.

- It is suggested that you bring your calculator (you can use your calculator during the quiz on February 4th).

#26: “li $t0, (1024)” is an illegal instruction (if you try to assemble that instruction using PC-SPIM simulator, that instruction will cause a syntax error). What’s wrong?

The “load immediate ("li")” instruction takes a numeric constant for its second parameter, such as “li $t0, 1024”. The “li” instruction does NOT access any memory address. However, “(1024)” means “memory address of”. Thus, “li $t0, (1024)” should be “lw $t0, (1024)”.

CS 286 – Computer Organization & Architecture, Quiz #3 Question List