CMPUT 229 - Quiz #5 — Winter 2014

Name: _____

Consider the instruction `beq $t0, $t1, foo` (0001 0001 0000 1001 0000 0000 0000 0111 in binary), and the datapath diagram below. Assume this instruction is stored in memory at address 0x4000 0000.

Question 1 (2 points): Highlight the datapath for executing the instruction on the diagram.

Question 2 (2 points): What is the output of the **Sign-extend** unit?

Question 3 (2 points): What are the *sources* of the input values to the main **ALU**?

Question 4 (2 points): What are the input *values* to the **Add ALU**?

Question 5 (2 points): Which type of instruction is not implemented in the datapath?