Score:	

Name:

ECE 3055 Quiz II, Wednesday, January 28

The instruction, or \$2,\$3,\$5 is executed on the MIPS single clock cycle datapath. Assume the registers are all loaded with the register number prior to execution and all data memory words are loaded with the memory address of the first byte of the word. Fill in the values of the following control signals and buses.

MIPS Datapath bus values in hexadecimal

Instruction Bus = 00651025

Register file Read Data Bus 1 = 0000003

Register file Read Data Bus 2 = 0000005

Write Register Bus = 02

Write Data Bus = 000000

MIPS Control Signals in Binary

MemWrite = O

ALUSrc = 0

PCSrc = 0

ALU Op (two-bits) = \bigcirc

ALU control (three bits) = 00 (