Name:

Date:

Class: CS 160

Quiz #5

1. What is the machine instruction cycle order? **(Bolden your answer)** (Three points)
2. **Fetch, Decode, Execute**
3. Decode, Fetch, Execute
4. Execute, Fetch, Decode
5. Decode, Execute, Fetch

2) Which of the following is not contained in a CPU? **(Bolden your answer)** (Three points)

1. Instruction Register
2. General-Purpose Register
3. Program Counter
4. **Memory Cell**

3) Translate the following into machine language instructions (place answer after the colon:). (Five points)

* Load register 4 with Hex 0A16**:** **240A**
* Load register 3 with Hex 0F16**:** **230F**
* Add the bits in registers 4 and 3, *two’s complement*, and place result in register 6**:** **5643**
* OR the bits in registers 4 and 3 and place results in register 5**:** **7534**
* Halt**:** **C000**

4) Explain the difference between a LOAD instruction and a STORE instruction. (Six points)



5) What are the three logical operators? (Three points)

1. **AND**
2. **OR**
3. **XOR**