Name:			

ACTIVITY 3

MICROCOMPUTER DESIGN (FROM ASSIGNED READING - §2.1)

	address bus - ALU - bus - clock - control bus - control unit CPU - data bus - memory storage unit - register					
	The pulses at a constant rate and is used to synchronize the internal operatio the CPU with other system components.*					
2.	The contains circuitry to carry out the instructions of a computer program, performing basic arithmetic, logical, and input/output operations of the system.† It contains following components:					
	a. The contains circuitry to perform arithmetic operations (addition, subtraction multiplication, division), comparisons (e.g., less than), and logical operations such as AND, OR, and NOT.*0	1,				
	b. The contains circuitry to fetch an instruction, decode it, and direct the ALU t carry out the desired operation.**	to				
	c. <u>s</u> are memory locations located inside the CPU that hold intermediate values during computations and can be accessed at a much higher speed than both cache memory and conventional memory (RAM).*					
3.	A is a group of parallel wires that transfer data from one part of the computer to another.*					
4.	To read data from memory (RAM), the CPU performs the following steps in order:*					
	a. The address of the memory operand is placed on thebus.					
	b. The control unit signals the that a read operation should be performed.					
	c. The memory storage unit reads the data from memory, and then it places the data on thebus.					
	d. The control unit reads the data from the bus and stores it in an internal register.					
	MORE TERMINOLOGY (EASY TO GUESS)					
••••	integrated circuit - microprocessor					
5.	An (also referred to as a <i>chip</i> or a <i>microchip</i>) is a set of electronic circuits on one small plate of semiconductor material, normally silicon. [†]					
6.	An integrated circuit that contains all (or most) of the functions of a computer's central processing unit (CPU) is called a‡					