## COMP 3350 - HOMEWORK 2: x86 ORGANICATION BASILS

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	QUESTION 1
	1. EAX - Accumulator 5. EBP - Base pointer > These 4 cannot be
	2. EBX - Buse register 6. ESP - Stack pointer addressed in parts of
	3. ECX - Loop counter 7. ESI - Source index 8-bits.
	4. EDX - Data register 8. EDI - Data index
	QUESTION 2
	When the below flags are '1', they indicate
	Sign (SF) - Result is negative
	Zero (ZF) - Result is zero
X	Carry (CF) - Unsigned arithmetic out of range
	Auxiliary Carry (AF) - Carry from bit 3 to bit 4
	Parity (PF) - Sum of 1 bits is an even number
¥	Overflow (OF) - Signed arithmetic out of range
	QUESTION 3
	Cause memory stores recently or frequently accessed data. Faster, but less dense. No refresh.
100	QUESTION 4
	No, application programs can access any area of memory in real-access mode.  In protected mode, each program is assigned a memory partition which is protected
	from other programs.
	QUESTION 5
	20 address lines = 2 addresses = 1,048,576 addresses (1 MB)
	RUESTION 6
	1 _ 1 _ 0.2 ns/clock cycle > 5 clock cycles × 0.2 ns/clock cycle
	5 GHz 5×10° = 1 ns
1	
1	