Name: Id#

COE 301/ICS 233, Term 172

Computer Architecture & Assembly Language Quiz# 1

Date: Thursday, Feb. 1, 2017

(1)	Two advantages of programming in assembly language are
(2)	Two advantages of programming in high-level language are
(3)	With a 24-bit address bus and 32-bit data bus, the maximum memory size (assuming byte addressable memory) that can be accessed by a processor is and the maximum number of bytes that can be read or written in a single cycle is
(4)	The advantage of static RAM over dynamic RAM is that it is but the disadvantage is

(7)	The				is considered as an i	interface					
	between	soft	ftware	and	hardware	and	consists	of		,	
										and	
							_·				
(8)	Given a r	nagn	etic d	isk wi	ith the follo	wing	properties	S:			
	• Time of one rotation is 8 ms										
• Average seek = 8 ms, Sector = 512 bytes, Track = 200 sectors											
		Th	e avei	age ti	ime to acce	ss a b	lock of 10	0 co	onsecutive sectors is		
					13 4000	22 4 0	10111 01 10		mg		

Q2. Briefly describe the main functionality of the program counter register (PC), the instruction register (IR), and the fetch-execute process in a computer.