ICS 233, Term 072

Computer Architecture & Assembly Language Quiz# 1

Date: Wednesday, Feb. 27, 2008

Q1. Fill the blanks in the following questions:

1.			one-to-one	corre	esponden	ce b	etwee	en			and	
2.	Advantages of programming in high-level language are:and											
3.		-	of pr	-	-			-	-			
4.	The processor consists of two main units:								and			
5.	Given an address bus of 20 bits and data bus of 16 bits, the maximum memory size that can be interfaced with the CPU is bytes and the maximum number of bytes that can be read in a single read/write cycle is bytes.											
6.	RAM is slower than							RAM but is denser and cheaper.				
7.		rotation	disk with l latency,	i.e.	average	time	to	locate	a need	led sect	or is	
8.	The	need	for	a	memor				is	due	to	
			is faste		n				but	slower	than	

- 10. ______ is a register that holds the address of the next instruction to be fetched from memory.
- 11. Given that a wafer can be diced into 1000 dies, out of which 200 dies are defective. Then, the yield is ______.
- 12. The ______is considered as an interface between software and hardware and consists of ______, ____, and _____.
- 13. ______is a program that manages the resources of a computer for the benefit of the programs that run on that machine.
- 14. ______is program that translates from high-level languages to assembly language.
- 15. ______is a technology in which a single chip contains hundreds of thousands to millions of transistors.