CS 286-001 Computer Architecture & Organization  
Summer 2018  
Quiz #1 on June 4, 2018 (SOLUTIONS)

Your Last Three Digits: ________________  
(please do NOT write all of your student ID or your name)

Grade: ______

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(1) If a necessary condition is satisfied, what conclusion can we draw?

Since the intended result may or may not be achieved when a necessary condition is satisfied, 
we can not draw any conclusion.

(2) What are the two primary advantages of learning “computer organization and architecture” 
by CS majors?

- Develop good debugging skills
- Develop efficient software products

(3) What does “low-level” in “low-level programming languages” mean?

The term, “low-level” means “close to hardware (processors)”, which means, very low (almost zero) 
abstraction (you will see every single activity a processors performs).
(4) What are the three different types of “program files”? Which format do processors understand?

(a) Source-code files in high-level programming languages
(b) Assembly source-code files
(c) Binary executable files

Processors understand only binary executable files.

(5) What is the software tool that translates “(human) programmers’ source code files” into “assembly source code files”?

Compilers