Chapters 1, 2, and App A Objectives

Quiz questions will be created based on the following objectives

• Weekly Objectives – Be Able To:

* explain why operating systems (OS) need to exist and/or what OS do
* identify and describe three or more issues that drove the development of the earliest operating systems
* identify and describe three or more solutions to problems that were occurring during the early development of OS
* explain the relationship between the user and CPU, and OS and the CPU, and how they differ
* explain the relationship between the OS and the computer hardware, including how it protects hardware from potential misuse
* identify and briefly describe the four fundamental components of a computer system
* identify and briefly explain the difference between a system service and a system call
* identify and briefly describe three or more services that are provided by the OS to user applications
* briefly explain the difference between a “dumb” terminal and a computer
* briefly explain the difference between CLI, GUI, and batch operations
* explain the benefits that CLI, GUI, or batch processing have over the others (e.g., CLI over GUI, GUI over batch processing, etc.)
* identify and briefly describe at least three ways to pass data to a system call
* explain the difference between “policy” and “mechanism” for purposes of OS development
* explain the difference between a true layered OS, a microkernel OS structure, and/or a modular OS structure
* explain the difference between a true layered OS structure and the way the original MS-DOS layered OS structure worked
* explain why an OS is thought to be a “mandatory middleman”
* explain what a virtual machine is and why it might be necessary