Operating System Fundamentals - Fall 2014 Final Test Preparation

Test Format

- Multiple Choice (approximately 40%)
- Fill in the blank(s) (approximately (30%)
- Short answer (approximately 30%)
- Duration 1 hour 30 minutes

Preparation – Study the following:

- Module 08 TCP/IP based systems
 - Know the differences between a LAN and WAN
 - Know the strengths and weaknesses of Peer-To-Peer and Server-based networks
 - Describe the roles of servers on a network
 - What's the difference between a hub, a switch and a router?
 - Describe TCP/IP and specifically what roles TCP plays as opposed to IP
 - Define DHCP and DNS
 - Understand the different classes of IP addressing
 - What are subnet masks and how do you use them?
 - What utilities are available to help you troubleshoot a TCP/IP network problem?
- Module 09 Virtual Machines
 - Review the steps needed to install a guest operating system on VMWare
 - Describe the concept of a Virtual Machine and how it works
 - Review the settings that you can manage in VMWare
 - What are the benefits of using a Virtual Machine? What are the scenarios that are well suited for the use of a Virtual Machine?
- Module 10 Operating System Scripts
 - Why is scripting useful?
 - Be able to create a batch file (.bat) for Windows
 - How do you pass parameters to a batch file?
 - How do you get user input while executing the batch file?
 - Know what the following batch commands do, and how to use them:
 - ECHO
 - GOTO
 - : (colon)
 - IF
 - EXIST
 - NOT
 - ERRORLEVEL
 - What is the Windows Script Host?
 - Why is it better than batch files?

- o Module 11 Web Technologies
 - What is HTML? JavaScript? jQuery?
 - Why do we need a web server for applications?
 - What is the concept of server-side programming? Why is it useful?
 - What is the basic structure of an HTML document?
 - Write basic HTML code using the following elements:
 - Anchor
 - Paragraph
 - Headers
 - Image
 - What is CSS? Be able to demonstrate inline styles, internal style sheets and external style sheets.
 - What is the role of the browser?

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