Course: Windows and UNIX (3430)
Level: Postgraduate
Semester: Spring, 2013
Total Marks: 100

ASSIGNMENT No. 1

Note: All questions carry equal marks.

Q.1 Discuss the responsibilities of system administrator for administrating various network operations and resources allocations.

Q.2 Give a Comparative study of Windows NT and window 2000 in respect of network administration.

Q.3 Discuss the general techniques used for installation of network operating system in view of network size and cost.

Q.4 Why Backup is necessary? Also elaborate the types and strategies of network system backup.

Q.5 Describe the disaster protection and recovery console techniques in Windows 2000.

ASSIGNMENT No. 2

Total Marks: 100

Note: All questions carry equal marks.

Q.1 Describe the step by step implementation of TCP/IP and DHCP installation and configuration.

Q.2 Discuss the techniques used for monitoring various network resources in Windows administration.

Q.3 Study the recent advances in security of network system. Write a detail summarize report on security administration.

Q.4 Describe the functionality and characteristics of effective network analyzer.

Q.5 Write down the step by step procedure of Installation of UNIX operating system.
3430 Windows & UNIX

By Robert Williams, Mark Walla

Course Outlines:

Unit 1 Overview
  a) Introduction to Network and System Administration
  b) Objectives, Operations Administration
  c) Resources Administration

Unit 2 Introduction to Windows 2000
  b) Windows 2000 Server, Comparison Between Windows NT And 2000
  c) Windows 2000 Features

Unit 3 Windows 2000 Installation
  a) Hardware Requirements, Disk Partition Procedure
  b) Choosing A File System, Domains and Workgroups
  c) Installation Procedure, Installing Devices and Network Components
  d) Types of Users Accounts, Built-in User Accounts
  e) Local User Accounts, Domain User Accounts, User Profiles, Group Policies

Unit 4 Backing Up, Restoring and Disaster Recovery
  a) Backup Types, Backup Strategies, Remote Storage, Restoring Data
  b) Disaster Protection, Power Issues, Hardware Failures, Implementing Software Raid
  c) Windows 2000 Recovery Console, Emergency Repair Disk

Unit 5 Installing and Configuring Network Protocols
  a) Configuring TCP/IP, Network Binding
  b) Understanding of Dynamic Host Configuration Protocol (DHCP)
  c) Installing And Configuration of DHCP

Unit 6 Monitoring Network Resources
  a) Monitoring Access to Shared Folders, Monitoring Access To Open Files
  b) Monitoring Network Users, Administrative Messages To Users
  c) Network Printing, Managing Printer Pools
  d) Password, Server, Network and Vendor Documentation
  e) Change Control Process, Change Request
Unit 7 Security Administration
a) Objective of Security Administration, Security Administration At The Network Level
b) Security Administration at the End System Level
c) Security of the Resources, Computer Virus, Types of Viruses And Network Administration
d) Daily Preventive Measures, Measures to Be Taken After the System Is Infected By A Virus
e) Vaccine for Virus, Technologies about Security Administration

Unit 8 Network Analyzer
a) Network Analyzer Functions, Network Analyzers That Run on a Personal Computer
b) Or Workstation, Desktop Management, Desktop Management Products
c) Dedicated Network Analyzer, Dedicated Tester

Unit 9 UNIX Installation & Administration
a) Hardware and Software Requirements
b) Installation Process, Setting Peripheral Devices
c) Troubleshooting, Maintaining The File System
d) Maintaining User Accounts, Configuration Level, Backup and Restores
e) Security Issues