

ALLAMA IQBAL OPEN UNIVERSITY, ISLAMABAD
(Department of Computer Science)

WARNING

1. **PLAGIARISM OR HIRING OF GHOST WRITER(S) FOR SOLVING THE ASSIGNMENT(S) WILL DEBAR THE STUDENT FROM AWARD OF DEGREE/CERTIFICATE, IF FOUND AT ANY STAGE.**
2. **SUBMITTING ASSIGNMENTS BORROWED OR STOLEN FROM OTHER(S) AS ONE'S OWN WILL BE PENALIZED AS DEFINED IN "AIOU PLAGIARISM POLICY".**

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

**Recommended Book: The Ultimate Windows 2000 System Administrator's Guide
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

- a) What Is Windows 2000, Windows 2000 Professional
- 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