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

**Course: Windows and UNIX (3430)**  **Semester: Autumn, 2012**
**Level: PGD (CS) MBA–IT**  **Total Marks: 100**

## ASSIGNMENT No. 1

*Note:  All questions carry equal marks.*

Q. 1 (a)  Discuss the levels of administration in windows 2000 operating system?

(b)  Describe briefly the resources allocation policy commonly pictured for administrating a network.

Q. 2 (a)  What are the responsibilities of system administrator in a Network? How you consider his role in the functionality of a network?

(b)  Demonstrate the universal features of windows 2000 Professional vis-à-vis network controlling and management? Elaborate.

Q. 3 (a)  Differentiate between Local User Account and Domain User Account.

(b)  You are trying to create a striped volume on your Windows 2000 Server to improve performance. You confirm that you have enough unallocated disk space on two disks in your computer, but when you right-click an area of unallocated space on a disk, your only option is to create a partition. What is the problem, and how would you resolve it?

Q. 4 (a)  One of the most important features of Windows 2000 is the Remote Installation Service. Write down the procedure for RIS (Remote Installation Service) in detail.

(b)  In window environment network security is very important especially when you are on a network; your data is not secure. How can you secure your data from unauthorized users?

Q. 5 (a)  What are security and distribution group? Why groups are made? Differentiate between a local, global, and universal group in windows 2000.

(b)  Explain the disaster recovery procedure in windows 2000 in case of failure.

# ASSIGNMENT No. 2

**Total Marks: 100**

*Note: All questions carry equal marks.*

Q. 1 Describe the purpose and importance of Dynamic Host Configuration Protocol (DHCP) in network management system. Also explain where DHCP is useful?

Q. 2 (a) Explain the recovery mechanism in UNIX administration.
(b) What is TCP/IP protocol suite? How it is configured on a server in windows environment?

Q. 3 Write down the advantages and disadvantages of network analyzer. Also explain the characteristics and functionality of network analyzer.

Q. 4 (a) Describe the security issues in UNIX operating system.
(b) What are the features of UNIX operating system?

Q. 5 Snap a summary not more than 4 pages on the features of UNIX and WINDOWS operating system.

---

# COURSE OUTLINES
# WINDOWS AND UNIX (3430)

*Recommended Book:*
*The Ultimate Windows 2000 System Administrator's Guide by Robert Williams, Mark Walla*

**Unit No. 1 Overview**
a) Introduction To Network And System Administration
b) Objectives, Operations Administration
c) Resources Administration

**Unit No. 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 No. 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 Account
e) Local User Accounts, Domain User Accounts, User Profiles, Group Policies

**Unit No. 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 No. 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 No. 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 No. 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 No. 8 Network Analyzer**
a)    Network Analyzer Functions, Network Analyzers That Run on a Personal Computer
b)    Workstation, Desktop Management, Desktop Management Products
c)    Dedicated Network Analyzer, Dedicated Tester

**Unit No. 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

==========