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

Course: Windows & UNIX (3430)   Semester: Spring 2014
Level: MBA/PGD (CS)   Marks: 100

ASSIGNMENT No. 1

Note: *All questions carry equal marks.*

Q.No.1   (a)   What are the key responsibilities of system administration managing a small size network?
             (b)   Discuss the policy adopted by administrator for resources allocation in a business base network.

QNo.2   (a)   Suppose you are hired as a consultant to improve the functionality of a network spanning and rely on public network. What will you suggest?
             (b)   What are the basic attributes of windows 2000 professional vis-a-vis network scheming and administration? Elaborate.

Q.No.3   (a)   Why are importance of Local User Account and Domain User Account?
             (b)   What are techniques used for creating a striped volume on your Windows 2000 server to improve performance. 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.No.4   (a)   Describe the characteristics of Windows 2000 Remote Installation Service. Write down the procedure for RIS (Remote Installation Service) in the environment.
             (b)   Suppose you are a system administrator for Windows based environment. How can you secure your data from unauthorized/ illegitimate users?

Q.No.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.No.1 (a) What is the purpose of Dynamic Host Configuration Protocol (DHCP). How DHCP is implemented/functional in system to facilitate administrator?

Q.No.2 (a) Discuss the recovery mechanism in UNIX environment.
(b) Define the Transmission Control Protocols/Internet Protocol? Describe the procedure for configuring in windows environment?

Q.No.3. What is network analyzer. Also explain the characteristics and functionality of network analyzer.

Q.No.4 (a) Discuss the various security concerns in UNIX environment.
(b) Describe the features of UNIX operating system?

Q.No.5 Write a detail report in the various feature available in UNIX and WINDOWS environment.

3430 WINDOWS & UNIX

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

COURSE OUTLINES

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) Or 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