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

Course: Network and System Administration (3444)   **Semester: Autumn, 2013**
Level: Bachelor   **Total Marks: 100**

ASSIGNMENT No. 1

Note: All questions carry equal marks.

Q. 1   Discuss the key duty of network management that is mainly practiced in a size of firm or grouped for the administration of their network assets.

Q. 2   Elaborate the most important features of Window 2000 professional, keeping the view of network domain.

Q. 3   Discuss the importance of recover. Also describe the precautions of recovery. Comments on each in administration perspective.

Q. 4   What is meant by destruction of valued assets? Write down the main causes of asserts disaster.

Q. 5   Analyze static IP setup and DHCP (Dynamic Host Control Protocol) in view of defense and security.

ASSIGNMENT No. 2

Total Marks: 100

Note: All questions carry equal marks.

Q. 1   Describe the implementation process of Access Control List (ACL) in a network environment? Elaborate step by step.

Q. 2   Why password is a week entity in some cases? Describe the possible causes of password bypassing.

Q. 3   How you characterized a secure network? Also describe the levels of security.

Q. 4   Define and explain the importance of penetration and analyzer in secure environment.

Q. 5   Compare the resources management of UNIX and Windows operating system, which support administration of network system framework.

3444 Network & System Administration   Credit Hours: 4(3 + 1)

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

Course Outlines:
Unit–1 Overview
> Introduction to Network and System Administration, Objectives, Operations Administration, Resources Administration

Unit–2 Introduction to Windows 2000
> What is Windows 2000, Windows 2000 Professional, Windows 2000 Server, Comparison Between Windows NT And 2000, Windows 2000 Features

Unit–3 Windows 2000 Installation, User Accounts, Groups and their Administration
> Hardware Requirements, Disk Partition Procedure, Choosing a File System, Domains and Workgroups, Installation Procedure, Installing Devices and Network Components, Types of Users Accounts, Built-In User Accounts, Local User Accounts, Domain User Accounts, User Profiles, Group Policies

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

Unit–5 Installing and Configuring Network Protocols
> Configuring TCP/IP, Network Binding, Understanding of Dynamic Host Configuration Protocol (DHCP), Installing and Configuration of DHCP

Unit–6 Monitoring Network Resources
> Monitoring Access to Shared Folders, Monitoring Access to Open Files, Monitoring Network Users, Administrative Messages to Users, Network Printing, Managing Printer Pools, Password, Server, Network and Vendor Documentation, Change Control Process, Change Request

Unit–7 Security Administration

Objective of Security Administration, Security Administration at The Network Level, Security Administration at The End System Level, Security of The Resources, Computer Virus, Types of Viruses and Network Administration, Daily Preventive Measures, Measures to Be Taken After The System Is Infected By A Virus, Vaccine For Virus, Technologies About Security Administration

Unit–8 Network Analyzer

Network Analyzer Functions, Network Analyzers That Run On a Personal Computer, Workstation, Desktop Management, Desktop Management Products, Dedicated Network Analyzer, Dedicated Tester

Unit–9 UNIX Installation & Administration

Hardware and Software Requirements, Installation Process, Setting Peripheral Devices, Troubleshooting, Maintaining The File System, Maintaining User Accounts, Configuration Level, Backup And Restores, Security Issues

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