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34684- COMPUTER HARDWARE AND NETWORKING PRACTICAL

DETAILED SYLLABUS

OBJECTIVES

On completion of the following exercises, the students must be able to

- Know the various indicators, switches and connectors used in Computers.
- Familiarize the layout of SMPS, motherboard and various Disk Drives.
- Configure Bios set up options.
- Install various secondary storage devices with memory partition and formatting.
- Know the various types of printer installation and to handle the troubleshooting ability.
- Assemble PC system and checking the working condition.
- Installation of Dual OS in a system.
- Identify the problems in Computer systems, software installation and rectification
- Assembling and disassembling of Laptop to identify the parts and to install OS and configure it.
- Enable to perform different cabling in a network.
- Configure Internet connection and use utilities to debug the network issues.
- Configure router for any topology
- Install and configure Windows 2008 / 2013 Server
- Design Windows server Active directory Services.
- Install and configure server hardware devices.

LAB EXERCISES

PART A - COMPUTER SERVICING AND NETWORK PRACTICAL

- 1. Identification of system layout (Study Exercise)
 - a) Front panel indicators & switches and front side & rear side connectors.
 - b) Familiarize the computer system Layout: Marking positions of SMPS, Motherboard, HDD, DVD and add on cards.
 - c) Configure bios setup program and troubleshoot the typical problems using BIOS utility.

2. HARD DISK

- a) Install Hard Disk.
- b) Configure CMOS-Setup.

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- c) Partition and Format Hard Disk.
- d) Identify Master /Slave / IDE Devices.
- e) Practice with scan disk, disk cleanup, disk De-fragmentation, Virus Detecting and Rectifying Software.
- 3. a) Install and Configure a DVD Writer & Blu-ray Disc Writer.
 - b) Recording a Blank DVD & Blu-ray Disc.
- 4. Assemble a system with add on cards and check the working condition of the system and install Dual OS.
- 5. Identification of mobile phone components (Study Exercise)
 - a) Basic mobile phone components.
 - b) Familiarizing the basic circuit board components: Marking position of different IC and Switches in the Network and Power sections of the PCB.
- 6. Flashing, Unlocking and Formatting memory cards in Mobile phones.
- 7. Do the following cabling works in a network
 - a) Cable Crimpling
 - b) Standard Cabling
 - c) Cross Cabling
 - d) I/O Connector Crimping
 - e) Testing the Crimped cable using a Cable tester
- 8. a) Configure Host IP, Subnet Mask and Default Gateway in a system in LAN (TCP/IP Configuration).
 - b) Configure Internet connection and use IPCONFIG, PING / Tracert and Netstat utilities to Debug the Network issues.
- 9. Transfer files between systems in LAN using FTP Configuration. Install a printer in LAN and share it in the network.

PART B - SYSTEM ADMINISTRATION PRACTICAL

- 1. Installation of Windows 2008 / 2013 Server.
- 2. Installation and configuration of DHCP Server.
- 3. Installation and configuration of Mail Server.
- 4. a) Installation of Red Hat Linux using Graphical mode.
 - b) Installation of Red Hat Linux using VMware.
- 5. a) Creating a user in Linux Server and assigning rights.
 - b) Configuring and troubleshooting of /etc/inittab
- 6. a) Configuring and troubleshooting of /etc/grub.conf
 - b) Configuring and trouble shooting of /etc/passwd