

LAB EXERCISES

PART – A

Contents: Practical

1	HARD DISK a) Install Hard Disk. b) Configure CMOS-Setup. 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. f) Creating System restore points in windows for system recovery.
2	a) Install and Configure a DVD Writer & Blu-ray Disc Writer. b) Recording a Blank DVD & Blu-ray Disc.
3	Printer Installation and Servicing a) Install and configure Dot matrix printer, Ink jet and Laser printer. b) Troubleshoot the above printers
4	Install and configure Scanner, Web cam, and bio-metric device with system and troubleshoot the problems
5	Do the following cabling works in a network a) Cable Crimping b) Standard Cabling c) Cross Cabling d) Testing the Crimped cable using a Cable tester
6	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.
7	a) Install and configure Network Devices: HUB, Switch and Routers b)Install and Configure Wired and Wireless NIC and transfer files between systems

8	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	Installation and configuration of Active directory Services. Create a user and permission using logon script and group permissions.
5	Installation and configuration of DNS Server
6	a) Installation of Red Hat Linux using Graphical mode. b) Installation of Red Hat Linux using VMware.
7	Installation of various open source packet sniffing tools and inspect packets in linux.

DETAILED ALLOCATION OF MARKS

SCHEME OF VALUATION	
Procedure Writing – One Question from PART – A	20 Marks
Procedure Writing – One Question from PART - B	25 Marks
Executing Exercise (PART – A)	20 Marks
Executing Exercise (PART – B)	20 Marks
Result(Part – A)	5 Marks
Result(Part – B)	5 Marks
VIVA - VOCE	5 Marks
TOTAL	100 Marks

LIST OF EQUIPMENTS	
Hardware Requirements :	
Desktop Systems	30 Nos
Hard disk drive	06 Nos
DVD, Blu-ray Drive	06 Nos
Blank DVD , Blu-ray Disc	30 Nos
Head cleaning CD	01 No
Dot matrix Printer	01 No
Laser Printer	01 No
Ink Jet Printer	01 No
Web camera	01 No
Biometric Device	01 No
Scanner	01 No
Crimping Tool	06 Nos
Screwdriver set	06 Nos
Network Cables	50 mtrs
Switch	01 No
Hub	01 No
Router	01 No
Wires / Wire cutters	
Software Requirements:	
Windows server OS	
Windows /Linux OS	
DVD and Blu-ray Burning S/W.	