DIPLOMA IN COMPUTER ENGINEERING

CENTRALIZED QUESTION BANK

4052640 - Computer Hardware and Networking Practical

DIRECTORATE OF TECHNICAL

EDUCATION GOVERNMENT OF

TAMILNADU

DIPLOMA END SEMESTER / YEAR EXAMINATION – 2023

Course : Computer Engineering

Subject : Computer Hardware and Networking Practical   **QP Code :** 4052640

Time   : 3 Hours **Date** :   **Session:**   **Max Marks:** 100

Answer the Following Question

1.   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.
        Creating System restore points in windows for system recovery.

    2.   Installation and configuration of DHCP Server

2.   1.   Install and Configure a DVD Writer & Blu-ray Disc Writer.
       Recording a Blank DVD & Blu-ray Disc.

    2.   Installation of Windows 2008 / 2013 Server

3.   1.   Printer Installation and Servicing
     a)   Install and configure Dot matrix printer, Ink jet and Laser printer.
        Troubleshoot the above printers

    2.   Installation and configuration of DHCP Server

4.   1.   Install and configure Scanner, Web cam, and bio-metric device with system and
       troubleshoot the problems

    2.   Installation and configuration of Mail Server

5.   1.   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.

    2.   Installation and configuration of Active directory Services. Create a user and
      permission using logon script and group permissions.

6.   1.   (a)Install and configure Network Devices: HUB, Switch and Routers
      (b)Install and Configure Wired and Wireless NIC and transfer files between
       Systems

    2.   Installation and configuration of DNS Server

7.	1.	Transfer files between systems in LAN using FTP Configuration. Install a printer in LAN and share it in the network.
	2.	a)Installation of Red Hat Linux using Graphical mode. b)Installation of Red Hat Linux using VMware.

8.	1.	Do the following cabling works in a network a) Cable Crimpling b) Standard Cabling c) Cross Cabling d) Testing the Crimped cable using a Cable tester
	2.	Installation of various open source packet sniffing tools and inspect packets in linux.

	1.	HARD DISK
9.		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.	Installation and configuration of Mail Server.

10.	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	Installation and configuration of DNS Server.

11.	1.	a)Install and Configure a DVD Writer & Blu-ray Disc Writer. b)Recording a Blank DVD & Blu-ray Disc.
	2.	Installation of various open source packet sniffing tools and inspect packets in linux

12.	1.	Printer Installation and Servicing a) Install and configure Dot matrix printer, Ink jet and Laser printer. b) Troubleshoot the above printers
	2.	Installation and configuration of DHCP Server

13.	1.	Install and configure Scanner, Web cam, and bio-metric device with system and troubleshoot the problems.
	2.	Installation of Windows 2008 / 2013 Server

14.   1.   Do the following cabling works in a network
                a) Cable Crimpling b) Standard Cabling c) Cross Cabling d) Testing the
                Crimped cable using a Cable tester.

        2   Installation of Windows 2008 / 2013 Server

15.   1.   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.

        2.   Installation and configuration of Active directory Services. Create a user and
                permission using logon script and group permissions.

16.   1.   Install and configure Network Devices: HUB, Switch and Routers
                Install and Configure Wired and Wireless NIC and transfer files between
                systems.

        2.   Installation and configuration of DHCP Server

17.   1.   Transfer files between systems in LAN using FTP Configuration. Install a
                printer in LAN and share it in the network.
        2.   Installation and configuration of DNS Server

18.   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) Installation of Red Hat Linux using Graphical mode.
                b) Installation of Red Hat Linux using VMware.

19.   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   Installation and configuration of DNS Server

20.   1.   a)Install and Configure a DVD Writer & Blu-ray Disc Writer.
      b)Recording a Blank DVD & Blu-ray Disc.

          2.   Installation of various open source packet sniffing tools and inspect packets in linux.

21.   1.   Printer Installation and Servicing
                  a) Install and configure Dot matrix printer, Ink jet and Laser printer.
                  b) Troubleshoot the above printers

          2.   a) Installation of Red Hat Linux using Graphical mode.
                b) Installation of Red Hat Linux using VMware.

22.   1.   Install and configure Scanner, Web cam, and bio-metric device with system and troubleshoot the problems.
          2.   Installation and configuration of Active directory Services. Create a user and permission using logon script and group permissions.

23.   1.   Do the following cabling works in a network
                a) Cable Crimpling b) Standard Cabling c) Cross Cabling d) Testing the Crimped
                 cable using a Cable tester.

          2   Installation and configuration of Active directory Services. Create a user and permission using logon script and group permissions.

24.   1.   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.

          2   Installation and configuration of DHCP Server

25.   1.   Install and configure Network Devices: HUB, Switch and Routers
              Install and Configure Wired and Wireless NIC and transfer files between systems.

          2   Installation and configuration of Mail Server.

26.   1.   Transfer files between systems in LAN using FTP Configuration. Install a Printer in LAN and share it in the network.

          2   Installation of Windows 2008 / 2013 Server