



# **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.        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.        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.        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.        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.        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.        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 Crimping 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.
9.
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    - a) Install Hard Disk.
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    - a) Install and Configure a DVD Writer & Blu-ray Disc Writer.
    - b) Recording a Blank DVD & Blu-ray Disc.
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  2. Installation and configuration of DNS Server

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