



# **DIPLOMA IN ELECTRONICS AND COMMUNICATION ENGINEERING**

**CENTRALIZED QUESTION BANK**

**4040640 - Computer Hardware Servicing And  
Networking Practical**

**DIRECTORATE OF TECHNICAL  
EDUCATION GOVERNMENT OF  
TAMILNADU**

**DIPLOMA END SEMESTER / YEAR EXAMINATION – 2023**

**Course :** Electronics and Communication Engineering

**Subject :** Computer Hardware Servicing And Networking  
Practical

**QP Code :** 4040640

**Time :** 3 Hours **Date :**

**Session:**

**Max Marks:** 100

**Answer the Following Question**

1. A) (i) Configure BIOS setup program and troubleshoot the typical problems using BIOS utility.  
(ii) Install, Configure, Partition and Format Hard disk.  
B) Share a printer in a LAN.
2. A) (i) Configure BIOS setup program and troubleshoot the typical problems using BIOS utility.  
(ii) Install, Configure, Partition and Format Hard disk.  
B) Share the files and folders in a LAN.
3. A) (i) Install and Configure a DVD Writer and record a blank DVD  
(ii) Install and Configure a Blu-ray Writer and record a blank Blu-ray Disc.  
B) Remote Desktop, Remote Assistance, Telnet, Hyper Terminal, TeamViewer.
4. A) (i) Install and configure a Dot matrix printer.  
(ii) Install and configure a Laser printer.  
B) Configure DNS to establish interconnection between systems and describe how a name is mapped to IP address.
5. A) (i) Install and configure a Scanner.  
(ii) Install and configure a Web cam and a bio-metric device.  
B) Use IPCONFIG, PING, TRACERT and NETSTAT utilities to debug the network issues.
6. A) (i) Assemble a system with add on cards and check the working condition of the system.  
(ii) Install OS in the assembled system.  
B) Interface two PCs to form Peer To Peer network using the connectivity devices Switch or Router in a LAN.

7. A) Install Dual OS in a system.  
 B) Do the following Cabling works for establishing a network,
  - (i) Crimp the network cable with RJ 45 connector in standard cabling mode and cross cabling mode.
  - (ii) Test the crimped cable using a cable tester.
  
8. A) (i) Assemble and Disassemble a Laptop to identify the parts.  
 (ii) Installation of different device drivers and Installation of different application software.  
 B) Use IPCONFIG, PING, TRACERT and NETSTAT utilities to debug the network issues.
  
9. A) Install Dual OS in a system.  
 B) (i) Install and configure Network Devices: HUB, Switch or Routers.  
 (ii) Install and configure NIC.
  
10. A) (i) Assemble and Disassemble a Laptop to identify the parts.  
 (ii) Installation of different device drivers and Installation of different application software.  
 B) Interface two PCs to form Peer To Peer network using the connectivity devices Switch or Router in a LAN.

### **DETAILED ALLOCATION OF MARKS**

CONTENT	Max. Marks	
	Part A	Part B
Procedure	20	20
Execution	20	20
Result with printout	5	5
Viva	10	
Total	100	