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DIPLOMA EXAMINATION IN ENGINEERING/TECHNOLOGY/ MANAGEMENT/COMMERCIAL PRACTICE, APRIL - 2025

COMPUTER HARDWARE AND NETWORKING

[Maximum Marks: 100]

[Time: **3** Hours]

PART-A [Maximum Marks: 10]

I. (Answer *all* questions in one or two sentences. Each question carries 2 marks)

- 1. List any two advantages of SMPS.
- 2. List any two display adapters.
- 3. List any four I/O interface cards used in Computers.
- 4. What is ESD?
- 5. What is the use of HUB in networking?

PART-B

[Maximum Marks: 30]

II. (Answer *any five* of the following questions. Each question carries *6* marks)

- 1. Draw the block diagram of VGA monitor.
- 2. Write notes on USB interface.
- 3. Describe memory refreshing.
- 4. Draw 20 pin power connector of ATX SMPS and mark all the pins and voltages.
- 5. Explain optical recording techniques.
- 6. Explain components of computer networking.
- 7. Explain different network topologies.

PART-C

[Maximum Marks: 60]

(Answer one full question from each Unit. Each full question carries 15 marks)

UNIT - I

	OR					
	b. Explain	the working	principle	of Inkjet printers.	(7)	
III.	a. Explain	the working	principle	of an ATX SMPS with the help of block diagram.	(8)	

IV. a. Explain AGP and PCI.b. Explain the working principle of optical mouse.

 $(5 \times 2 = 10)$

 $(5 \times 6 = 30)$

(8)

(7)

	UNIT – II				
V.	a. Write notes on CMOS, BIOS and POST.				
	b. Describe different types of RAM used in computers.	(7)			
	OR				
VI.	a. Explain different types of memory modules used in computers.	(8)			
	b. Write notes on Network Interface card, Graphics card and sound card.	(7)			
	UNIT- III				
VII.	a. Define terms Track, Sector and Cluster of Hard disk.				
	b. Compare CD and DVD.	(7)			
	OR				
VIII.	a. Explain Low level and High level formating of Hard disks.				
	b. Explain different antistatic methods to prevent ESD.	(7)			
	UNIT - IV				
IX.	a. Explain ISO-OSI reference model.	(10)			
	b. Write notes on Switch, Router and Bridge.	(5)			
	OR				
Х.	a. Explain TCP/IP architecture used in computer networking.	(8)			
	b. Write notes on LAN, WAN and MAN.				
