

**DIPLOMA EXAMINATION IN ENGINEERING/TECHNOLOGY/
MANAGEMENT/COMMERCIAL PRACTICE, NOVEMBER – 2023**

COMPUTER SYSTEM HARDWARE

[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 DRAM packages.
2. Define POST.
3. List any four voltage levels of ATX SMPS.
4. Name any two video display connectors.
5. Define PC card.

(5 x 2 = 10)

PART-B

[Maximum Marks: **30**]

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

1. Summarize the functions of BIOS.
2. Compare AT and ATX power connectors.
3. Write a short note on platters, sectors and tracks of HDD.
4. Summarize the features of CAD Systems.
5. Write a note on Expansion cards.
6. Explain the features of Ultrabooks.
7. Explain Docking station.

(5 x 6 = 30)

PART-C

[Maximum Marks: **60**]

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

UNIT – I

- III. a. Explain three different types of DRAM. (9)
- b. Explain any three major connectors of a PC. (6)

OR

- IV. a. Explain any five motherboard components. (10)
- b. Write a short note on cache memory. (5)

UNIT – II

- V. a. Explain the working of SMPS with a neat diagram. (9)
- b. Compare any two hard drive interfaces. (6)

OR

- VI. a. Describe the procedure for partitioning and formatting of HDD. (8)
- b. Differentiate between Disk mirroring and Disk duplexing. (7)

UNIT- III

- VII. a. Compare thick client and thin client. (8)
- b. Explain D-subminiature connectors. (7)

OR

- VIII. a. Explain three different display devices. (9)
- b. List the advantages of laser printer. (6)

UNIT - IV

- IX. a. Summarize the features of a laptop. (7)
- b. Explain briefly on touch screen technology. (8)

OR

- X. a. Explain the procedure for replacing memory of a laptop. (8)
- b. Write a note on Tablet PCs. (7)
