

**DIPLOMA EXAMINATION IN ENGINEERING/TECHNOLOGY/MANAGEMENT/
COMMERCIAL PRACTICE, NOVEMBER – 2025**

COMPUTER SYSTEM HARDWARE

[Maximum marks: 100]

[Time: 3 Hours]

PART – A

Maximum marks: 10

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

1. Name any two processor socket.
2. Define cache memory.
3. State the need of partitioning.
4. List any two multimedia input devices.
5. Specify about docking station. (5 x 2 = 10)

PART – B

Maximum marks: 30

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

1. Explain any two form factors of motherboard.
2. Describe different types of memory slots.
3. Explain any two HDD interfaces.
4. State the output voltages of ATX SMPS based on color code.
5. Compare impact and non impact printers with examples.
6. Explain any two mouse connectors.
7. Write short notes on Ultra book and tablet PCs. (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) Describe various expansion slots. (9)
- (b) Explain the role of chipset in motherboard. (6)

OR

- IV.** (a) Explain varieties of RAM. (9)
(b) Explain the function of BIOS. (6)

UNIT - II

- V.** (a) Explain the working of hard disk drive. (9)
(b) Describe different types of formatting. (6)

OR

- VI.** (a) Describe Disk mirroring and disk duplexing. (9)
(b) Describe flash drive. (6)

UNIT - III

- VII.** (a) Discuss the following expansion cards. (9)
1) Graphics card 2) Sound card 3) NIC
(b) Explain about audio/video workstation. (6)

OR

- VIII.** (a) Explain the major video connectors and cables. (9)
(b) Explain the working of inkjet printer. (6)

UNIT - IV

- IX.** (a) Describe steps involved in disassembling & assembling laptop. (9)
(b) State any two input devices used in laptop. (6)

OR

- X.** (a) Explain Touch screen technology. (9)
(b) Explain features of mobile devices. (6)
