

**DIPLOMA EXAMINATION IN ENGINEERING/TECHNOLOGY/
MANAGEMENT/COMMERCIAL PRACTICE, NOVEMBER - 2024**

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. Define cache memory.
2. Define cylinder in a hard disk.
3. State the purpose of power good signal in an SMPS.
4. Define thick client.
5. State the use of docking station for a laptop. (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 types of RAM
2. Describe briefly about the functions of chipsets.
3. Compare PATA and SATA.
4. Define port. Explain briefly on USB port.
5. Write the features of virtualization workstation.
6. Write any three security features of mobile devices.
7. Write the procedure for replacing a laptop hard drive. (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. Define form factor of motherboard. Explain any two form factors. (8)
- b. Explain any two expansion slots of motherboard. (7)

OR

- IV. a. Outline the characteristics of modern processors. (8)
- b. State various functions of BIOS. (7)

UNIT – II

- V. a. List various voltage signals and colour codes of an ATX SMPS connector. (8)
- b. Explain Disk duplexing. (7)

OR

- VI. a. Explain the procedure for formatting and partitioning a hard disk. (8)
- b. Write short note on Flash memory. (7)

UNIT- III

- VII. a. Summarize the features of any two expansion cards of a PC. (8)
- b. Explain briefly about the working of a Laser printer. (7)

OR

- VIII. a. Explain the operation of any two input devices. (8)
- b. Explain features of Gaming PC. (7)

UNIT - IV

- IX. a. Compare the features of Laptop vs Desktop. (8)
- b. Write short note on Tablet PC. (7)

OR

- X. a. Describe briefly on any two types of memory packages of a Laptop. (8)
- b. Summarize the features of Laptop processors. (7)
