

DIPLOMA EXAMINATION IN ENGINEERING/TECHNOLOGY/  
MANAGEMENT/COMMERCIAL PRACTICE — APRIL, 2018

**COMPUTER SYSTEM HARDWARE**

[Time : 3 hours

(Maximum marks : 100)

PART — A

(Maximum marks : 10)

Marks

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

1. List four major connectors of a PC.
2. List the voltages available in FDD Power connector.
3. What is PCI ?
4. Define PCMCIA.
5. What is NIC ?

(5 × 2 = 10)

PART — B

(Maximum marks : 30)

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

1. Explain the functions of BIOS.
2. What are the output voltages that have been commonly produced by PC power supplies ?
3. Explain different keyboard connectors.
4. Describe Docking Station.
5. Explain Cache Memory.
6. Explain Flash Memory.
7. Explain Passcode Lock in Mobile devices.

(5 × 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 the Motherboard Chipsets. 6  
 (b) Explain three different types of DRAM. 9

OR

- IV (a) Explain three different CMOS setup utilities. 9  
 (b) Explain Parity checking and Error-correcting code of Memory. 6

## UNIT — II

- V (a) Explain Characteristics of Power Supplies. 7  
 (b) Explain the working of hard drives. 8

OR

- VI (a) Explain any three types of RAID. 9  
 (b) Describe the procedure for partitioning and formatting of HDD. 6

## UNIT — III

- VII (a) Explain D-subminiature connectors. 9  
 (b) Explain the system specifications required for a CAD / CAM workstation. 6

OR

- VIII (a) Explain different parts of an ink jet printer. 8  
 (b) Explain three different display devices. 7

## UNIT — IV

- IX (a) Explain briefly on Processors and Motherboards of laptop. 9  
 (b) Explain features of Ultrabook. 6

OR

- X (a) Explain the procedure of replacing a Laptop Hard Drive. 8  
 (b) Explain briefly on touch screen technology. 7