N19 - 00931

TED (15) – 4131

(REVISION — 2015)

Reg. No. ....

Signature ....

DIPLOMA EXAMINATION IN ENGINEERING/TECHNOLOGY/ MANAGEMENT/COMMERCIAL PRACTICE — OCTOBER, 2019

COMPUTER SYSTEM HARDWARE

[*Time* : 3 hours

(Maximum marks : 100)

Marks

PART — A
(Maximum marks : 10)

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

1. List four major connectors of a PC.

2. Expand SIMM and DIMM.

3. Name any two power connectors of power supply unit.

4. List any two multimedia input devices.

5. List any two methods of controlling the pointer on the screen.   (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. Define Average seek time, Latency and Average access time.

3. Briefly explain about optical storage media.

4. Explain the operation of Mouse and Keyboard input devices.

5. Explain CRT and LED displays.

6. Explain the major differences between Laptops and Desktops.

7. Explain about Laptop displays.   (5 × 6 = 30)

2

MarksMarks

PART — C

(Maximum marks : 60)

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

Unit — I

III (a) Write short note on any two motherboard form factors.   6

(b) Explain about different types of ROM.   9

Or

IV (a) Explain about the motherboard chipsets.   9

(b) Discuss the need of CMOS memory in a PC.   6

Unit — II

V (a) Explain the working of hard drives.   8

(b) Explain briefly about RAID technology.   7

Or

VI (a) Explain about the PATA and SATA interfaces.   8

(b) What are partitioning and formatting of HDDs ?   7

Unit — III

VII (a) Describe the organization of Standard Thick clients and Thin clients.   7

(b) Explain about any two video display connectors.   8

Or

VIII (a) Explain the operation of a scanner. List the different types of scanners.   7

(b) Explain briefly about expansion cards.   8

Unit — IV

IX (a) Explain about expansion buses and ports in laptops.   9

(b) Explain briefly about two input devices in laptops.   6

Or

X (a) Briefly describe about laptop motherboards and laptop processors.   8

(b) Explain the procedure for replacing laptop hard drive.   7

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