DIPLOMA EXAMINATION IN ENGINEERING/TECHNOLOGY/ MANAGEMENT/COMMERCIAL PRACTICE — OCTOBER, 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.   Name any two motherboard form factors.

2.   List two benefits of Solid State Drives.

3.   State the function of NIC.

4.   Write the characteristics of Ultrabooks.

5.   List the security utilities in mobile devices.   (5×2 = 10)

PART — B

(Maximum marks : 30)

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

1.   Distinguish between Northbridge and Southbridge.

2.   Explain any three varieties of RAM.

3.   Describe the components of a hard disk drive.

4.   Summarize the different RAID levels.

5.   Describe the various PC connectors.

6.   Write notes on Touch Screen Technology.

7.   Explain PCMCIA expansion bus.   (5×6 = 30)

Marks

PART — C

(Maximum marks : 60)

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

UNIT — I

III (a) Explain the basic components of a motherboard.   8

   (b) Write short notes on different types of memory packaging.   7

OR

IV (a) Explain the different types of expansion slots.   8

   (b) Summarize the functions of BIOS.   7

UNIT — II

V (a) Explain motherboard power connectors.   8

   (b) Describe SCSI drives.   7

OR

VI (a) Compare IDE and SATA hard drive interfaces.   8

   (b) Explain removable storage devices.   7

UNIT — III

VII (a) Write notes on expansion cards.   8

   (b) Explain the basic components of a laser printer.   7

OR

VIII (a) Explain about multimedia input devices.   8

   (b) Describe the features of audio/video editing workstations.   7

UNIT — IV

IX (a) Explain briefly on laptop processors and memory.   8

   (b) Outline the features of Tablet PCs.   7

OR

X (a) Describe the various pointing devices in laptops.   8

   (b) Explain the procedure for disassembling of laptops.   7

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