# FOURTH SEMESTER DIPLOMA EXAMINATION IN ENGINEERING/ TECHNOLOGY — APRIL, 2017

## COMPUTER SYSTEM HARDWARE

(Common for CT and CHM)

[*Time* : 3 hours

(Maximum marks : 100)

## PART — A

(Maximum marks : 10)

Marks

I   Answer the following questions in one or two sentences. Each question carries 2 marks.

   1.   What are the major chipsets in a motherboard.

   2.   List the main parts of a Hard Disk.

   3.   List two different Printer Ports.

   4.   List any two security settings in mobile devices.

   5.   List different USB connectors.                                   (5×2=10)

## PART — B

(Maximum marks : 30)

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

   1.   Explain the function of BIOS.

   2.   Explain disk duplexing.

   3.   Explain the working of Scanner.

   4.   Explain the procedure of Replacing Laptop Memory.

   5.   Describe parity checking.

   6.   Explain the solid-state drives.

   7.   Explain different types of Mouse based on their working.           (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 verities of RAM. | 9 |
| | (b) Write short notes on any two motherboard form factors. | 6 |

OR

| | | |
|---|---|---|
| IV | (a) Short notes on Front-Panel Connectors of a PC. | 6 |
| | (b) Explain different types of ROM. | 9 |

### UNIT — II

| | | |
|---|---|---|
| V | (a) Explain RAID. | 6 |
| | (b) Explain motherboard power connectors. | 9 |

OR

| | | |
|---|---|---|
| VI | (a) Explain the PATA and SATA hard drive interfaces. | 8 |
| | (b) Describe the components of a HDD. | 7 |

### UNIT — III

| | | |
|---|---|---|
| VII | (a) Explain Laser Printers. | 7 |
| | (b) Explain the System Requirements of a Gaming PC. | 8 |

OR

| | | |
|---|---|---|
| VIII | (a) Explain the procedure of Installing and Sharing Printers. | 7 |
| | (b) Explain LCD displays. | 8 |

### UNIT — IV

| | | |
|---|---|---|
| IX | (a) Explain different Memory packages used in laptops. | 8 |
| | (b) Explain the Screen Orientation in Mobile devices. | 7 |

OR

| | | |
|---|---|---|
| X | (a) Explain Expansion Buses and Ports in Laptops. | 8 |
| | (b) Explain any one Positioning and Geolocation system in mobile devices. | 7 |

—————————