TED (15) – 6043

(REVISION — 2015)

Reg. No..

Signature ....

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

COMPUTER HARDWARE AND NETWORKING

[*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. Distinguish between impact and non impact printers.

2. Name any four expansion cards used in computer system.

3. Define the term ESD.

4. Name any two protocols used in computer networks.

5. List different mouse 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 principle of Optical Mouse.

2. Describe the working principle of DOT Matrix printer.

3. Describe memory refreshing and its necessity.

4. State the need for partitioning of disk and describe the procedure of partitioning.

5. State and explain the need for networking.

6. Describe different types of wireless LAN.

7. Briefly explain Linux file system.

(5×6 = 30)

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[**P.T.O.**

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 working principle of Ink Jet Printer.   7

      (b) With diagram explain the working of Flat bed Scanner.   8

Or

IV (a) Describe AGP and their advantages.   6

      (b) Explain VGA monitor with block diagram.   9

Unit — II

V (a) Explain different Motherboard Form factors.   9

      (b) Write short notes on Network interface card and Video card.   6

Or

VI (a) Explain the functions of BIOS.   6

      (b) Briefly explain different memory modules used in computer.   9

Unit — III

VII (a) Describe the method of reading and writing a CD.   7

      (b) Explain types of ESD and methods for preventing ESD.   8

Or

VIII (a) State the need for formatting and explain different types of formatting.   9

      (b) Compare CD and DVD.   6

Unit — IV

IX (a) Explain the structure of ISO/OSI model.   9

      (b) Describe the concept of Internet and its applications.   6

Or

X (a) Explain the concept of Virtual Private Network.   7

      (b) Describe Wi-Fi and Bluetooth.   8