

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.

 $(5 \times 2 = 10)$ 

## 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.

 $(5 \times 6 = 30)$ 

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[P.T.O.



Marks

6

## 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	97 145
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	

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

(b) Describe Wi-Fi and Bluetooth.

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

(a) Explain the concept of Virtual Private Network.