

TED (15) - 6043

(REVISION - 2015)

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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

 $(5 \times 2 = 10)$

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.

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.

[169]

(5×6 = 30) [**P.T.O.**



Marks

8

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. Or	8
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
2	(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.