

TED (15) -6131 (Revision- 2015)

A22-00873

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## DIPLOMA EXAMINATION IN ENGINEERING/TECHNOLOGY/MANAGEMENT/ COMMERCIAL PRACTICE –APRIL -2022.

## **COMPUTER NETWORKS**

(Maximum Marks : 100) [Time : 3 hours]

PART-A

(Max. Marks:10) Marks

- I. Answer all the questions in one or two sentences. Each question carries 2 marks.
  - 1. Define Computer Network.
  - 2. State the function of TCP/IP protocol.
  - 3. What is socket?
  - 4. Write down the structure of a URL.
  - 5. List any 2 application layer protocols.

(5x2=10)

#### PART - B

(Max. Marks: 30)

- II Answer any five of the following questions. Each question carries 6 marks.
  - 1. Distinguish between hub and switch.
  - 2. Briefly explain any 2 networking topologies.
  - 3. Explain IPV4 datagram format.
  - 4. Briefly explain subnetting in classless addressing.
  - 5. Explain go back-N repeat protocol.
  - 6. Summarize uses of UDP.
  - 7. Describe FTP.

(5x6 = 30)



# PART - C

(Max. Marks: 60)

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

## UNIT I

III	II a) Explain TCP/IP protocol suite.	
	b) Describe briefly the architecture of wireless LAN.	
	OR	
IV	a) Explain any 3 LAN connecting devices.	(6)
	b) Explain the addressing used in various layer of TCP/IP protocol suite.	
	UNIT- II	
V	V a) Explain distance vector routing.	
	b) Explain DHCP.	
	OR	
VI	a) What is link state routing.	(9)
	b) Differentiate broadcasting and multicasting.	
	UNIT- III	
VII	Explain SCTP services.	(15)
	OR	
VII	VIII a) Compare TCP and UDP.	
	b) Explain selective repeat protocol.	(6)
	UNIT – IV	
IX	Describe architecture of WWW.	(15)
	OR	
X	a) Explain name resolution in DNS	(9)
	b) Explain SMTP.	(6)
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