

TED (15) -5151  
(Revision- 2015)

**A20-01023**

Reg.No.....  
Signature. ....

DIPLOMA EXAMINATION IN ENGINEERING/TECHNOLOGY/MANAGEMENT/  
COMMERCIAL PRACTICE – APRIL -2020.

**COMPUTER NETWORKS**

(Maximum Marks : 75)

[Time : 2.15 hours]

**PART-A**

Marks

**I.** Answer **any three** questions in one or two sentences. Each question carries 2 marks.

1. What is virtual LAN?
2. Write notes on multicasting.
3. List the Services of Transport Layer.
4. State the need of DNS.
5. What is remote logging?

(3x2=6)

**PART - B**

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

1. Describe various network topologies.
2. Explain LAN connecting Devices.
3. Write notes on DHCP.
4. Compare TCP and UDP.
5. Summarise Distance-vector Routing Algorithm.
6. Describe SCTP.
7. Demonstrate Architecture of E-mail.

[4x6 =24]

**PART - C**

(Answer **any of the three units** from the following. Each full question carries 15 marks)

**UNIT I**

- III** (a) State IEEE 802.11 Architecture. (8)  
(b) Describe about Wired LAN. (7)

**OR**

- IV** (a) Explain TCP/IP Architecture. (8)  
(b) Describe Wireless LAN. (7)

**UNIT- II**

- V** (a) Draw and Explain IP Datagram format. (7)  
(b) List and analyze various congestion control mechanisms. (8)

**OR**

- VI** (a) Write notes on delay and throughput. (7)  
(b) Describe IPV4 addresses. (8)

**UNIT- III**

- VII** (a) Describe various Transport Layer Protocols. (9)  
(b) Explain UDP. (6)

**OR**

- VIII** (a) List and Explain various Transport Layer Services. (9)  
(b) Write notes on TCP. (6)

**UNIT – IV**

- IX** (a) Describe SMTP and POP. (8)  
(b) Explain HTTP. (7)

**OR**

- X** (a) Describe Domain Name System. (8)  
(b) Write the working of FTP. (7)

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