



TED (15) -6131  
(Revision- 2015)

**A22-00873**

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

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** a) Explain TCP/IP protocol suite. (9)  
b) Describe briefly the architecture of wireless LAN. (6)

**OR**

- IV** a) Explain any 3 LAN connecting devices. (6)  
b) Explain the addressing used in various layer of TCP/IP protocol suite. (9)

**UNIT- II**

- V** a) Explain distance vector routing. (8)  
b) Explain DHCP. (7)

**OR**

- VI** a) What is link state routing. (9)  
b) Differentiate broadcasting and multicasting. (6)

**UNIT- III**

- VII** Explain SCTP services. (15)

**OR**

- VIII** a) Compare TCP and UDP. (9)  
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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