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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