



TED (15) – 6131

(REVISION – 2015)

Reg. No. ....

Signature .....

**DIPLOMA EXAMINATION IN ENGINEERING/TECHNOLOGY/  
MANAGEMENT/COMMERCIAL PRACTICE — OCTOBER, 2018**

**COMPUTER NETWORKS**

[Time : 3 hours

(Maximum marks : 100)

**PART — A**

(Maximum marks : 10)

Marks

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

1. State the term protocol.
2. Write the address space of IPv4.
3. Define socket address.
4. Define throughput in a network.
5. Name the components of URL.

(5×2 = 10)

**PART — B**

(Maximum marks : 30)

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

1. Explain briefly on any two topologies.
2. Describe IEEE Project 802.
3. Explain Distance vector routing algorithm.
4. Summarize uses of UDP.
5. Explain DNS messages.
6. Explain FTP.
7. Compare connectionless and connection oriented services.

(5×6 = 30)



PART — C

(Maximum marks : 60)

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

UNIT — I

- III (a) Explain TCP/IP protocol suite. 8  
(b) Describe briefly on the architecture of wireless LAN. 7

OR

- IV (a) Explain the architecture of virtual LAN. 9  
(b) Explain any two LAN connecting devices. 6

UNIT — II

- V (a) Describe IPV4 addressing. 9  
(b) Explain path vector routing. 6

OR

- VI (a) Describe Link state routing. 9  
(b) Differentiate between multicasting and broadcasting. 6

UNIT — III

- VII (a) Explain congestion control in TCP. 9  
(b) Explain piggybacking. 6

OR

- VIII (a) Summarize SCTP services. 8  
(b) Describe briefly on User Datagram. 7

UNIT — IV

- IX (a) Describe the architecture of WWW. 9  
(b) Explain briefly on TELNET. 6

OR

- X (a) Explain Simple Mail Transfer Protocol. 9  
(b) Describe Post Office Protocol. 6