

TED (15) -6131
(Revision- 2015)

A21-03247

Reg.No.....
Signature.

DIPLOMA EXAMINATION IN ENGINEERING/TECHNOLOGY/MANAGEMENT/
COMMERCIAL PRACTICE – APRIL -2021.

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. List any two layers of TCP/IP.
2. What is Ethernet.
3. Point out any two closed loop congestion control mechanisms.
4. What is meant by congestion?
5. State any two application layer protocols. (3x2=6)

PART - B

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

1. Discuss about star and mesh topologies with neat diagrams.
2. Describe any three network layer services.
3. Explain about various delays in networks.
4. Illustrate Stop-and-Wait protocol with a neat diagram.
5. Explain pushing and pulling service in Transport Layer.
6. Write a note on HTTP request Message.
7. Describe File Transfer Protocol. [4x6 =24]

PART - C

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

UNIT I

- III** (a) Draw the model of TCP/IP protocol and explain the functionalities of any two layers. (9)
- (b) Explain any two LAN Connecting devices. (6)

OR

- IV** (a) Explain the architecture of IEEE 802.11 Wireless LAN. (9)
- (b) Describe the types of memberships used in Virtual LAN. (6)

UNIT- II

- V** (a) Describe classful and classless addressing in IPV4 with the help of a neat diagram. (9)
- (b) Explain path vector routing. (6)

OR

- VI** (a) Write down the datagram format of IP. (9)
- (b) Describe various security issues of IPV4 datagram. (6)

UNIT- III

- VII** (a) Compare connectionless and connection oriented service at transport layer. (8)
- (b) Discuss connection establishment in TCP. (7)

OR

- VIII** (a) Explain SCTP. (7)
- (b) Describe UDP Services. (8)

UNIT – IV

- IX** (a) Describe the architecture of www. (8)
- (b) Write down DNS message format. (7)

OR

- X** (a) Explain the architecture of Simple Mail Transfer Protocol. (9)
- (b) Explain TELNET. (6)
