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TED (15) – 6131  
(REVISION — 2015)

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

DIPLOMA EXAMINATION IN ENGINEERING/TECHNOLOGY/  
MANAGEMENT/COMMERCIAL PRACTICE — OCTOBER, 2019

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. Define topology of network.
2. What is routing ?
3. Mention the purpose of SCTP.
4. List any two transport layer protocols.
5. Define SMTP.

(5×2 = 10)

PART — B

(Maximum marks : 30)

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

1. Define Virtual LAN and State its advantages.
2. Explain Standard Ethernet and Fast Ethernet.
3. Describe distance-vector routing algorithm.
4. Describe IPv4 address.
5. Describe Port numbers of Transport Layer.
6. Explain the URL.
7. Compare POP and IMAP.

(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 the Layers in the TCP/IP Protocol Suite with diagram. 8  
(b) Explain about the Connecting devices that can operate in different layers of the Internet model. 7

OR

- IV Compare the architecture of wired and wireless LANs. 15

UNIT — II

- V (a) Explain Internet Protocol. 7  
(b) Describe Class full Addressing of IPV4 8

OR

- VI (a) Describe the methods used to measure the performance of a network. 9  
(b) Explain how we can improve the performance of a network. 6

UNIT — III

- VII (a) Explain User Datagram Protocols and its applications. 9  
(b) Explain flow control in Transport Layer. 6

OR

- VIII (a) Describe the services offered by TCP to the processes at the application layer. 6  
(b) Explain stop and wait protocol with diagram. 9

UNIT — IV

- IX (a) What is electronic mail ? Describe the process of transferring mail messages. 7  
(b) Explain about the FTP protocol. 8

OR

- X (a) Explain about the architecture of WWW. 8  
(b) Describe the purpose of the DNS with diagram. 7
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