

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

COMPUTER NETWORK

[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 Computer networks.
2. Name any two routing algorithm.
3. Define the term piggy backing.
4. Name the two sub protocol of SMTP.
5. Define three way handshaking protocol.

(5×2 = 10)

PART — B

(Maximum marks : 30)

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

1. Differentiate between ISO-OSI and TCP/IP Protocol stack.
2. Explain CSMA/CD protocol.
3. Name the three Security issue in IPv4 Datagram.
4. Differentiate between unicasting, broad casting and multi casting.
5. Explain any six Transport layer services.
6. Why TCP protocol is reliable ? Explain.
7. What is URL and explain its identifier.

(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 different layers in TCP/IP Protocol suite. 10
 (b) Explain features and specification of Fast Ethernet. 5

OR

- IV (a) Explain Ethernet frame format. 10
 (b) Describe the minimum and maximum Ethernet frame size. 5

UNIT — II

- V (a) Define class less addressing. 5
 (b) Draw and Explain Datagram format of IPv4. 10

OR

- VI Explain Distance vector routing algorithm. 15

UNIT — III

- VII (a) Explain flow regulation in Transport layer. 10
 (b) Explain the features of stop and wait protocol. 5

OR

- VIII (a) Why UDP is un Reliable ? List its frame features. 10
 (b) Explain the features of GO back - N protocol. 5

UNIT — IV

- IX (a) Name the two connection in FTP protocol, explain. 10
 (b) Describe the MIME. 5

OR

- X Write notes on :

- (i) WWW (ii) HTTP (iii) DNS 15