

TED (10) – 4075

Reg. No.....

(REVISION—2010)

Signature

DIPLOMA EXAMINATION IN ENGINEERING/TECHNOLOGY/
MANAGEMENT/COMMERCIAL PRACTICE — OCTOBER, 2017

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. What is contention ?
2. What is a virtual circuit ?
3. Expand MIME.
4. Define scatternet.
5. What is wireless access point ?

(5×2 = 10)

PART — B

(Maximum marks : 30)

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

1. Differentiate between broadcast and point to point link.
2. State the assumptions in the dynamic channel allocation in LAN.
3. Explain the distance vector routing method.
4. Give the structure of IPv6.
5. What is buffering ?
6. Explain the spanning tree bridge.
7. Explain the Bluetooth protocol stack.

(5×6 = 30)

PART — C

Marks

(Maximum marks : 60)

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

UNIT — I

- III (a) Explain the ISO - OSI reference model in detail. 8
 (b) Explain about pure ALOHA and slotted ALOHA. 7

OR

- IV Explain in detail the ATM network reference model. 15

UNIT — II

- V Explain any two routing algorithms in detail. 15

OR

- VI (a) What are the congestion prevention policies. 7
 (b) Write notes on :
 (i) Leaky bucket algorithm.
 (ii) Header of IPv4. 8

UNIT — III

- VII (a) What are the message formats of e-mail. 8
 (b) Explain the user agent while sending and reading e-mails. 7

OR

- VIII (a) Explain connection establishment and connection release in the transport protocol. 8
 (b) Explain the Domain name server. 7

UNIT — IV

- IX Explain in detail the wireless LAN (802.11) protocol. 15

OR

- X Write notes on the following :
 (i) TCP
 (ii) HTTP
 (iii) Virtual LAN. 15