

TED (15/19) - 5151
(REVISION-2015/19)

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

**DIPLOMA EXAMINATION IN ENGINEERING/TECHNOLOGY/
MANAGEMENT/COMMERCIAL PRACTICE, NOVEMBER - 2023**

COMPUTER NETWORKS

(Maximum Marks:100)

(Time: 3 Hours)

PART - A
(Maximum Mark : 10)

Marks

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

1. List any two connecting devices in Networking.
2. What is congestion in computer networks.
3. What is socket?
4. Write the structure of URL.
5. Define TELNET.

(5 x 2 = 10)

PART - B
(Maximum Mark: 30)

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

1. Describe VLAN configuration methods.
2. Illustrate the frame format of standard Ethernet.
3. A classless IP address is given as 192.168.10.82/27. Find first address , last address and number of addresses in the block.
4. Differentiate unicasting, multicasting and broadcasting.
5. Explain push and pulling services in transport layer.
6. Differentiate connection-oriented and connectionsless protocols.
7. Explain DDNS.

(5 x 6 = 30)

P.T.O

PART – C

(Maximum Mark: 60)

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

UNIT - I

- III (a) Explain TCP / IP protocol suit. (8)
(b) Describe any four WLAN characteristics. (7)

OR

- IV (a) Explain any three Ethernet implementations. (8)
(b) Explain the sub-layers of data link layer. (7)

UNIT – II

- V (a) Explain distance vector routing protocol. (8)
(b) Explain DHCP (7)

OR

- VI (a) Explain IPV₄ addressing. (8)
(b) State any four network performance evaluating methods. (7)

UNIT – III

- VII (a) Explain selective repeat protocol with neat diagram. (8)
(b) Explain SCTP. (7)

OR

- VIII (a) Discuss connection establishment in TCP. (8)
(b) Explain any four services of transport layer. (7)

UNIT – IV

- IX (a) Explain the architecture of WWW. (8)
(b) Explain recursive address resolution of DNS. (7)

OR

- X (a) Explain e-mail architecture. (8)
(b) Illustrate the request message format of HTTP message. (7)

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