

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

NETWORK INFRASTRUCTURE MANAGEMENT

[Maximum Marks : 100]

[Time : 3 hours]

PART – A
(Maximum Marks : 10)

Marks

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

1. List any two network connecting devices.
2. Define VPN.
3. Give the use of subnet mask.
4. State the function of a router.
5. Define static routing.

(5x2=10)

PART – B
(Maximum Marks : 30)

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

1. Explain the importance of network infrastructure management.
2. Describe the functions of a modem.
3. Explain the classes of IP address.
4. Differentiate between Domain and workgroup users.
5. Explain the steps for upgrading Router's IOS.
6. Describe "Talking to router" through console mode.
7. Explain route selection.

(5x6=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 types of twisted pair cabling. (10)
(b) Write short note on Bluetooth networks. (5)

OR

- IV.** (a) Describe the working of Fiber optic media with a neat diagram. (10)
(b) Differentiate Hub and Switch. (5)

UNIT – II

- V.** (a) Write about the establishment of a remote Desktop connection. (8)
(b) Explain the working of DNS. (7)

OR

- VI.** (a) Describe IP Security. (8)
(b) Explain Domain Controllers. (7)

UNIT –III

- VII.** (a) Explain the basic Router configuration steps. (8)
(b) Explain the disaster recovery in Routers. (7)

OR

- VIII.** (a) Write about various types of Memory's in Routers. (8)
(b) Explain different steps in configuring Router's clock. (7)

UNIT – IV

- IX.** (a) Explain TCP/IP Exterior Gateway Protocols. (8)
(b) Describe network management fundamentals. (7)

OR

- X.** (a) Describe Route redistribution. (8)
(b) Explain TCP/IP Static routing. (7)
