

**DIPLOMA EXAMINATION IN ENGINEERING/TECHNOLOGY/MANAGEMENT/
COMMERCIAL PRACTICE, APRIL – 2021**

NETWORK INFRASTRUCTURE MANAGEMENT

[Maximum Marks: 75]

[Time: 2.15 Hours]

PART-A

(Answer *any three* questions in one or two sentences. Each question carries 2 marks)

- I. 1. What is meant by network infrastructure management?
2. Give the versions of IP addressing.
3. Define DHCP.
4. Comment on router.
5. Write any two routing metric variables. (3 x 2 = 6)

PART-B

(Answer *any four* of the following questions. Each question carries 6 marks)

- II 1. Describe Bluetooth.
2. Discuss coaxial cables.
3. Discuss the concept of domain and workgroup.
4. Write short note on: (a) windows firewall (b) IP Security.
5. Discuss about upgrading router IOS.
6. Explain IOS Message logging.
7. Mention TCP/IP static routing and its merits. (4 x 6 = 24)

PART-C

(Answer *any of the three units* from the following. Each full question carries 15 marks)

UNIT – I

- III (a) Explain any four networking devices. (8)
(b) Discuss wi-fi networks. (7)

OR

- IV (a) Describe straight through wired and cross over wired network cables. (8)
(b) Write short note on Fibre optic cables. (7)

UNIT – II

- V (a) Explain various classes of IP address. (8)
(b) Discuss Remote desktop. (7)

OR

- VI (a) Discuss steps for installation of active directory. (8)
(b) Write short notes on Domain Controller. (7)

UNIT- III

- VII (a) Explain Memory on routers. (8)
(b) Explain disaster recovery in routers. (7)

OR

- VIII (a) Explain router IOS. (8)
(b) Describe Talking to Router – Through the Console. (7)

UNIT - IV

- IX (a) Discuss about TCP/IP Interior Gateway Protocols. (8)
(b) Explain network management fundamentals. (7)

OR

- X (a) Distinguish between IGP and EGP. (8)
(b) Describe Network Analysis and Performance Tuning. (7)
