

**DIPLOMA EXAMINATION IN ENGINEERING/TECHNOLOGY/
MANAGEMENT/COMMERCIAL PRACTICE, NOVEMBER – 2022**

NETWORK INFRASTRUCTURE MANAGEMENT

[Maximum Marks: 100]

[Time: 3 Hours]

PART-A

[Maximum Marks: 10]

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

1. State the function of a repeater.
2. State APIPA.
3. List the four types of memory in a router.
4. State the purpose of route redistribution.
5. Define an Autonomous System. (5 x 2 = 10)

PART-B

[Maximum Marks: 30]

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

1. State the characteristics of a router.
2. Explain the Classes of IPv4 addresses.
3. Explain the working of DHCP.
4. Explain configuring router with <copy> command.
5. Explain the methods of configuring the router's clock.
6. Explain the primary network management functions.
7. List any six advantages of OSPF over distance vector protocols. (5 x 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 about thicknet and thinnet coaxial connectors. (8)
- (b) What is WiMAX? Explain its types. (7)

OR

- IV. (a) Describe bounded media in networking. (9)
(b) Write a note on Wi-Fi. (6)

UNIT – II

- V. (a) What are Active Directory group accounts? Explain their scopes and types. (8)
(b) Explain the Concept of DNS. (7)

OR

- VI. (a) Explain Remote Desktop Connection and its prerequisites. (8)
(b) Explain the purpose of Organizational Unit. (7)

UNIT- III

- VII. (a) Explain the basic router configuration. (9)
(b) Explain setting up Trap Logging. List the actions defined based on severity. (6)

OR

- VIII. (a) Explain router IOS upgrading through TFTP.. (9)
(b) Write a note on IOS message logging. (6)

UNIT - IV

- IX. (a) With a diagram, explain the router designations in an OSPF network. (9)
(b) List and state six common routing metric variables. (6)

OR

- X. (a) Explain NMS architecture. (9)
(b) Compare and contrast RIPv1 and RIPv2 protocols. (6)
