

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

**NETWORK INFRASTRUCTURE MANAGEMENT**

[Maximum marks: 100]

(Time: 3 Hours)

**PART – A**

**Maximum marks : 10**

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

1. Define unbounded transmission medium and give an example.
2. Name the versions of IP addressing.
3. Write about Windows firewalls.
4. Define router IOS.
5. Name any two dynamic routing protocols. (5 x 2 = 10)

**PART – B**

**Maximum marks : 30**

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

1. Write short notes on (a) Repeater (b) Modem.
2. Give a brief description about any two wireless network technologies.
3. Write short notes on classes of IP address.
4. Write a brief description about Router memories.
5. List the basic steps for router configuration.
6. Differentiate between dynamic and static routing.
7. Write short notes on route selection. (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) Compare straight-through cabling and cross-over cabling with figure. (9)

(b) Discuss about network infrastructure management. (6)

OR

IV. (a) Explain any two bounded transmission media with diagram. (9)

(b) Write a brief description about networking devices. (6)

#### UNIT-II

V. (a) Explain the Concept of DHCP server. (9)

(b) Write notes on domain controller. (6)

OR

VI. (a) Explain remote desktop connections. (9)

(b) Write about IP security. (6)

#### UNIT-III

VII.(a) Discuss IOS Authentication and Accounting. (9)

(b) Explain upgrading Router's IOS. (6)

OR

VIII.(a) Write about configuring the routers clock. (9)

(b) Describe router setting up buffered logging. (6)

#### UNIT-IV

IX. (a) Discuss about TCP/IP Exterior Gateway Protocols. (9)

(b) Write a short note on network management fundamentals. (6)

OR

X. (a) Discuss about network troubleshooting skills. (9)

(b) Write how to display general routing information. (6)

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