

DIPLOMA EXAMINATION IN ENGINEERING/TECHNOLOGY/  
MANAGEMENT/COMMERCIAL PRACTICE — APRIL, 2018

NETWORK INFRASTRUCTURE MANAGEMENT

[Time : 3 hours

(Maximum marks : 100)

PART — A

(Maximum marks : 10)

Marks

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

1. Define network infrastructure management.
2. State IP addressing.
3. List memories on routers
4. Give the function of TCP/IP protocol.
5. State static routing.

(5×2 = 10)

PART — B

(Maximum marks : 30)

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

1. Distinguish between Hub and Switch.
2. Give a brief note on any two wireless network devices.
3. Compare IPv4 vs IPv6.
4. List physical and logical components of Domain.
5. Give notes on router IOS and basic commands.
6. Discuss about router disaster recovery.
7. Mention few points about network troubleshooting.

(5×6 = 30)

PART — C  
(Maximum marks : 60)

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

UNIT — I

- III (a) Write short notes on LAN, MAN and WAN. 9  
 (b) Describe briefly about the following :  
 (i) Repeater (ii) VPN (iii) Modem. 6

OR

- IV (a) Discuss structure and advantages of co-axial cable with diagram. 9  
 (b) Compare straight-through and cross-over cabling. 6

UNIT — II

- V (a) List the Classes of IP address with format. 6  
 (b) Explain the Concept of DHCP server. 9

OR

- VI (a) List the steps for creating child domain. 9  
 (b) Write the procedure to provide a security for files and folders. 6

UNIT — III

- VII (a) Discuss the basic configuration steps of router. 9  
 (b) Describe briefly IOS Message Logging. 6

OR

- VIII (a) Explain IOS Configuring Router with <copy> and TFTP. 9  
 (b) Describe IOS Authentication and Accounting. 6

UNIT — IV

- IX (a) Explain basics of TCP/IP Dynamic Routing protocol. 9  
 (b) Discuss about TCP/IP Interior Gateway Protocols. 6

OR

- X (a) Write short notes on route control and redistribution configuration. 9  
 (b) Explain Network Analysis and Performance Tuning. 6