

TED (15) -6135  
(Revision- 2015)

**A22-00992**

Reg.No.....  
Signature. ....

DIPLOMA EXAMINATION IN ENGINEERING/TECHNOLOGY/MANAGEMENT/  
COMMERCIAL PRACTICE –APRIL -2022.

**NETWORK INFRASTRUCTURE MANAGEMENT**

(Maximum Marks : 100)

[Time : 3 hours]

**PART-A**  
(Max. Marks:10)

Marks

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

1. Define VPN.
2. State the purpose of vampire tap in Ethernet.
3. Define Global Catalog.
4. List the two methods for setting router's clock.
5. State network convergence.

(5x2=10)

**PART - B**  
(Max. Marks: 30)

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

1. Explain the working of a network switch.
2. List and state the features of Active Directory.
3. State the purpose of Active Directory Container Objects. Summarize their types.
4. Summarize the methods of talking to routers.
5. State the term accounting in routers. What are its types?
6. List and state six common routing metric variables.
7. List any six advantages of OSPF.

(5x6 =30)

**PART - C**  
(Max. Marks: 60)

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

**UNIT I**

- III** a) Illustrate the two types of architectures in bluetooth. (9)  
b) To implement a star topology network, you are given a hub and a switch.  
Which one will you prefer? Justify your answer. (6)

**OR**

- IV** a) Explain the three types of crimping in UTP cables. (9)  
b) Write a note on WiMax. (6)

**UNIT- II**

- V** a) Explain the physical structures in Active Directory. (9)  
b) List and state any six benefits of IP Security. (6)

**OR**

- VI** a) Explain any three types of Trust. (9)  
b) List and state the four types of firewalls. (6)

**UNIT- III**

- VII** a) Illustrate the three major EXEC modes in a router. (9)  
b) Illustrate the router recovery when the password is lost. (6)

**OR**

- VIII** a) List and explain the types of memory in routers. (9)  
b) What is configuration register? Explain its purpose with examples. (6)

**UNIT – IV**

- IX** a) Summarize the following.  
(i) Protocol Analyzers (ii) Time Domain Reflectors (iii) Ping (9)  
b) Compare and contrast RIPv1 and RIPv2 protocols. (6)

**OR**

- X** a) Define Autonomous Systems. List and state its types. (8)  
b) Summarize route redistribution. State the three steps to avoid the ill-effects of redistribution. (7)

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