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(REVISION — 2015)

Reg. No.....

Signature .....

DIPLOMA EXAMINATION IN ENGINEERING/TECHNOLOGY/ MANAGEMENT/COMMERCIAL PRACTICE — OCTOBER, 2019

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 the term VPN.
2. Define DHCP & DNS.
3. List the different addressing modes supported by IPV4.
4. Give names of memories used in a Router.
5. List 2 types of Gateway protocols used in TCP/IP. (5×2 = 10)

PART — B

(Maximum marks : 30)

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

1. Briefly explain Hub, Switch & Repeater.
2. Write short notes on Wi Fi & Bluetooth.
3. Compare IPV4 & IPV6.
4. Differentiate between Domain & workgroup.
5. Explain User EXEC mode in Routers.
6. Explain NMS Architecture.
7. Explain Configuring the Router's Clock. (5×6 = 30)

Marks

PART — C

(Maximum marks : 60)

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

UNIT — I

III (a) Explain Straight through, Cross-Over, Roll-Over cabling. 10

(b) Write short note on Wi Max. 5

OR

IV Write short note on :

(a) Optical Fiber (b) Co axial cable (c) Modem 15

UNIT — II

V (a) Explain subnet mask and its usage. 7

(b) Explain DHCP server and its working. 8

OR

VI (a) Explain the concept of Domain controller and Active directory. 8

(b) Briefly explain Windows firewall & IP Security. 7

UNIT — III

VII (a) Explain talking to router through console. 8

(b) Explain about different memories in a Router. 7

OR

VIII (a) Explain about Disaster Recovery in a Router. 8

(b) Explain Message Logging of OS in Routers. 7

UNIT — IV

IX (a) Explain TCP/IP Static Routing with its strengths & weakness. 10

(b) Write short note on Intranetwork routing & Internetwork routing. 5

OR

X (a) Explain different network data collection and diagnostics tools. 10

(b) Write short note on Network Throughput. 5