TED (15) – 6135

(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)

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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) Modern   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

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