



## Term Evaluation (Odd) Semester Examination September 2025

Roll no.....

Name of the Course: Diploma CS

Semester: Vth

Name of the Paper: Network Management and Administration

Paper Code: DTCS 503

Time: 1.5 hour

Maximum Marks: 50

### Note:

- (i) Answer all the questions by choosing any one of the sub-questions
- (ii) Each question carries 10 marks.

Q1. (10 Marks) (CO1)

- a. What are Directory Services? What are the advantages of using Directory Services? Write about different types of directory services.

OR

- b. Explain the roles of Network Administrator, Network Engineer, and Network Architect. Highlight their key responsibilities and bring out the differences with suitable examples.

Q2. (10 Marks) (CO1)

- a. What is X.500 Directory Access Protocol? Explain its key concepts. Also explain its working with the help of a neat diagram.

OR

- b. Write a short note on:

- a. Distinguished Name (DN)
- b. Relative Distinguished Name (RDN)
- c. LDAP
- d. Globally Unique Identifiers (GUIDs)

Q3. (10 Marks) (CO1)

- a. What is Remote Network Access and why do we need it? Draw a simple diagram showing how Remote Network Access works.

OR

- b. What do you mean by VPN? Draw a simple diagram showing a VPN connection. Explain any 2 VPN Protocols.

Q4. (10 Marks) (CO2)

- a. Write a short note on DHCP. Also explain some uses of a DHCP server.

OR

- b. What is RARP? How is RARP different from ARP?

Q5. (10 Marks) (CO2)

- a. What is the Domain Name System (DNS)? Explain its hierarchical structure, including Top-Level Domains, Second-Level Domains, and Subdomains. Also, describe the process of DNS Name Resolution.

OR

- b. Define Bootstrap Protocol. Differentiate between BOOTP and DHCP.



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Note For the question paper setters:

- Question paper should cover all the COs of the course.
- Please specify COs against each question.