



Seat No. : _____

DF-108

December-2025

Fifth Year M.Sc. (CA & IT), Sem.-IX

Network Administration

Time : 2 Hours]

[Max. Marks : 50

1. Describe in detail the duties and responsibilities of a network administrator. **10**

OR

1. (a) Explain common yum commands with examples. (6 marks) **10**
(b) What are the important run levels/targets in CentOS 7 ? Explain their purpose. (4 marks)

2. Explain installation, configuration, and testing of an FTP Server using vsftpd on CentOS 7. **10**

OR

2. (a) What is a Network Interface ? Explain its types with examples. (6 marks) **10**
(b) What is DNS ? Name any four DNS records and their purpose. (4 marks)

3. Explain the setup and configuration of a Mail Server using Postfix and Dovecot on CentOS 7. **10**

OR

3. (a) Explain the steps to install and test an Apache HTTP server on CentOS 7. (6 marks) **10**
(b) What is a Proxy Server ? Mention two uses of Squid. (4 marks)

4. (a) Explain data archiving and compression methods in Linux. (6 marks) **10**
(b) What is a process in Linux ? List any three process-management commands.
(4 marks)

OR

4. (a) Describe the steps to create, schedule and verify a cron job in Linux. (6 marks) **10**
(b) Differentiate between foreground and background processes. (4 marks)
5. (a) Explain RD Gateway and why it is considered essential for secure remote access ?
(6 marks) **10**
(b) What happens if RD Licensing is not configured in an RDS environment ?
(4 marks)

OR

5. (a) Describe any three real-world use cases of RDS and explain why organizations choose RDS for these scenarios. (6 marks) **10**
(b) What happens if RD Licensing is not configured in an RDS environment ?
(4 marks)
-