

**DIPLOMA EXAMINATION IN ENGINEERING/TECHNOLOGY/MANAGEMENT/
COMMERCIAL PRACTICE, APRIL - 2025**

SERVER ADMINISTRATION

[Maximum marks: 75]

[Time: 3 Hours]

PART A

I. Answer all the following questions in one word or one sentence. Each question carries 1 mark

(9 x 1 = 9 Marks)

		Module outcome	Cognitive level
1is an example for Linux distribution.	M1.01	R
2	The command used to remove directories in Linux is.....	M1.03	R
3	To delete a user from the system, the command....is used.	M2.01	R
4is the default file system found in most of the newer Linux distributions.	M2.03	R
5	The.....program is used to display the status of all of the network connections on a host.	M3.01	R
6	On Debian-like systems, the main configuration file for Apache is named.....	M3.02	R
7	UID stands forIdentifier in NFS.	M4.01	R
8	Dynamic Host Configuration Protocol is responsible for servingand other relevant information in response to client requests.	M4.01	R
9is an example for Command-Line backup tool.	M4.03	R

PART B

II. Answer any eight questions from the following. Each question carries 3 marks.

(8 x 3 = 24 Marks)

		Module outcome	Cognitive level
1	Compare Linux and Windows operating system.	M1.01	R
2	List any six File Management and Manipulation command.	M1.03	R
3	Explain about software package management in Ubuntu.	M1.04	U
4	What is kernel patching?	M1.05	R
5	What are the different types of users in Linux?	M2.01	R
6	Explain the commands for starting up and shutting down Apache HTTP Server on a Linux system.	M3.02	U

7	List the parameters required to configure a DHCP server.	M4.01	R
8	Explain the steps for mounting remote Samba share.	M4.01	U
9	What is the syntax of dump and restore command in command line backup tool.	M4.03	R
10	List the fields and permissions in the configuration file of the NFS server.	M4.01	R

PART C

Answer all questions. Each question carries seven marks

(6 x 7 = 42 Marks)

		Module outcome	Cognitive level
III	Outline the procedure for setting up a Linux server, covering each step thoroughly.	M1.02	U
	OR		
IV	Explain steps of Compile and install GNU software.	M1.04	U
V	Summarize the following (i) /etc/fstab file (ii) fsck.	M2.03	U
	OR		
VI	Classify the common command-line tools for managing users and groups in linux ? Provide examples of how to create, modify, and delete users and groups using these tools.	M2.01	U
VII	Define the following (i) killall (ii) ps (iii) renice (iv) top	M2.04	R
	OR		
VIII	Explain the need of boot loader and types of boot loaders.	M2.02	U
IX	Explain different utilities to displaying routes from the command line.	M3.01	U
	OR		
X	Identify the steps for Starting and Testing the FTP Server.	M3.02	A
XI	Explain the route configuration command route with parameters and example.	M3.01	U
	OR		
XII	Identify various options in sshd Configuration File.	M3.02	A
XIII	Explain various RPC process/components that facilitate the NFS service under Linux.	M4.01	U
	OR		
XIV	Summarize the command-line tools in CUPS administration.	M4.02	U
