

**DIPLOMA EXAMINATION IN ENGINEERING/TECHNOLOGY/  
MANAGEMENT/COMMERCIAL PRACTICE, APRIL – 2024**

**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 ‘one’ mark.**

**(9 x 1 = 9 Marks)**

|    |  | <small>Module Outcome</small> | <small>Cognitive level</small> |
|----|--|-------------------------------|--------------------------------|
| 1. | Name any 2 Linux Operating Systems Distribution.   | M1.01                         | R                              |
| 2. | List any 2 types of Owners in Linux System.        | M1.03                         | R                              |
| 3. | Write any 2 file types in Linux.                   | M1.03                         | R                              |
| 4. | What is UID and GID in Linux?                      | M2.01                         | R                              |
| 5. | ----- command shows all the processes in a system. | M2.04                         | U                              |
| 6. | In Linux, outline command used to add IP address.  | M3.01                         | U                              |
| 7. | List any one web server used in Linux.             | M3.02                         | R                              |
| 8. | What is the Full Form of NFS?                      | M4.01                         | R                              |
| 9. | Write Backup restore command line utility.         | M4.03                         | R                              |

**PART-B**

**II. Answer any ‘eight’ questions from the following. Each question carries ‘three’ marks.**

**(8 x 3 = 24 Marks)**

|     |   | <small>Module Outcome</small> | <small>Cognitive level</small> |
|-----|---|-------------------------------|--------------------------------|
| 1.  | Explain Read, Write and Execute Permissions in Linux.   | M1.03                         | U                              |
| 2.  | Summarize the use of editors in Linux? List any 3 text editors in Linux.                            | M1.03                         | U                              |
| 3.  | Making use of Linux commands write an example to move file, copy file and list files.               | M1.03                         | A                              |
| 4.  | Define Patching the Kernel.   | M1.05                         | R                              |
| 5.  | Identify the commands used to add, set password, modify and delete a user in Linux with an example. | M2.01                         | A                              |
| 6.  | Making use of different ways, configure IP address 192.168.1.4 to eth0.                             | M3.01                         | A                              |
| 7.  | Summarize the use of Samba.   | M4.01                         | U                              |
| 8.  | What are the functions of DHCP Server?  | M4.01                         | R                              |
| 9.  | Explain Command line backup, restore tools.   | M4.03                         | U                              |
| 10. | List factors that should be taken into consideration when evaluating backup needs.                  | M4.03                         | R                              |

**PART-C**

**Answer 'all' questions from the following. Each question carries 'seven' marks.**

**(6 x 7 = 42 Marks)**

|       |  | <small>Module Outcome</small> | <small>Cognitive level</small> |
|-------|--|-------------------------------|--------------------------------|
| III.  | Define Linux OS distributions? Write any 2 examples of commercial and non-commercial distros.<br><br><b>OR</b>                           | M1.01                         | R                              |
| IV.   | Explain Kernel. Illustrate Functions of Kernel.  | M1.05                         | U                              |
| V.    | Identify a Normal & Super user in Linux? Utilize the command to add modify and remove a user and group in Linux system.<br><br><b>OR</b> | M2.01                         | A                              |
| VI.   | Outline bootloader. Explain GRUB boot process.   | M2.02                         | U                              |
| VII.  | Outline about the user information storing in Linux. Explain the fields of passwd file.<br><br><b>OR</b>                                 | M2.01                         | U                              |
| VIII. | Explain Syslog in Linux.   | M2.05                         | U                              |
| IX.   | Making use of different ways, display routes in Linux.<br><br><b>OR</b>  | M3.01                         | A                              |
| X.    | Define Mechanics of FTP? What is Active FTP mode & Passive FTP mode?   | M3.02                         | R                              |
| XI.   | Explain Common Configuration Options that are used in Apache's configuration file.<br><br><b>OR</b>                                      | M3.02                         | U                              |
| XII.  | Explain the parameters used in the route command below.<br># route cmd type addy netmask mask gw gway dev dn.                            | M3.01                         | U                              |
| XIII. | Show the criteria's to be considered for Evaluating Backup Needs.<br><br><b>OR</b>   | M4.03                         | R                              |
| XIV.  | Summarize the three Samba daemons.   | M4.01                         | U                              |

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