

Test Paper 2

Total Marks - 75

Note:- Each Question carry 5 Marks. And you are not allowed to use google.

1. Write the command to count the number of lines in a file `/var/log/messages` containing the string "error".
2. How can you use grep to display all lines in a file `/var/log/dnf.log` that do **not** contain the word `DEBUG`?
3. Explain the purpose of the following command and describe what it does:
`command > /dev/null 2>&1`
4. How can you redirect both the standard output and standard error of a command to the different file? Write the appropriate command for redirecting the output of `ls /usr` to a file named `errors.log`.
5. Create a file named `sed.txt` enter the content linux (twice), `redhat`, `ubuntu`, `windows`, `Mac`. Write the command to find the word `redhat` and replace that word to `centos`. And write command to delete the word `linux`. (Hint – Use sed command)
6. You have a file `users.txt` containing 1,000 usernames, one on each line. Write a pipeline command to display lines 101 to 110 from the file.
7. How can you copy three files: `file1.txt`, `file2.txt`, and `file3.txt` into a directory named `backup`?
8. Create a collaborative directory `/udaipur/techno/njr` and now create 20 files as `file1.txt` to `file20.txt` in a single command, location must be `/udaipur/techno/njr`. (hint use command separator)
9. Difference between `|| su ||` & `|| su - ||` command.

10. Explain each field of `/etc/passwd` and `/etc/shadow` file.
11. When a new user is created on the system, the default password aging policy should ensure that the user's password expires after 90 days.
12. . Difference between superuser, systemuser & regular user.
13. Create a group named `sysadmin` and add `harry` and `raj` in the group. They should not be removed from existing groups. Change the Primary group of user `prem` as `sysadmin`.
14. Configure password policies of `harry` user such that its Account get expired on 23-05-2026.
15. If I delete a user, Does it's home directory and mail file gets deleted? If not then what is the command to delete the home directory and mail file of user along with the user.