# Test Paper 1

**Total Marks - 75**

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

1. Write a command using `grep` to search for the word "error" in the file `/var/log/messages` and display the line number of each occurrence.

2. Explain the purpose of the `grep -i` option. Provide an example to search the word "user" in a case-insensitive manner in the file `users.txt.`

3. Describe the difference between `>` and `>>` in output redirection. Provide examples to demonstrate their usage

4. How can you redirect both the standard output and standard error of a command to the diffrent 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. Write a command to display lines 10 through 20 of the file `/etc/passwd` using `head` and `tail` commands in a pipeline.

7. What will happen if you use the `cp` command with the `-i` option? Explain its usage with an example.

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. Command to list all the password policies for a user.

12. Configure password policies of harry user such that its password get expired after every 30days.
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. Which files stores the user min UID, max UID, password expiration settings, password encryption method being used etc.

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.