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| C:\Users\hp\Documents\download.jpg | **Lab Assignment No. 01 Semester: FALL 2019 Operating System Concepts** | **Total Marks: 10**  **Due Date: 02-10-2019** |

**Question # 1**

What functionality will be performed by the following commands on a **LINUX** shell? Briefly describe each command that is specified.

1. cat /etc/passwd
2. cp oldfile mynewfile
3. mv myfile yourfile
4. ping 192.168.1.1
5. rmdir existingdirectory
6. cd ../home/users/computerhope
7. chdir public\_html
8. man mkdir
9. ls -al
10. mkdir -p /home/munir/courses/cs604
11. rm –rf directory1 directory2
12. pwd
13. cp –ir /home/user1/directory1 /home/user2/directory2
14. mv \*.c ./cfiles
15. ls –l > list
16. ps fax | less

**Question # 2**

Answer the following short questions

1. What is the difference between cat and more commands?
2. If our current working directory is /home/user1/dir1/subdir1 and we want to move to the directory /home/user2/dir5, then what are the two possible choices to change to the desired directory?
3. What is the command to display the user name with which you have logged in?
4. What does the /etc/shadow file contain?
5. What the difference is between statically linked and dynamically linked executable files?
6. What is the command to create a compressed archive (archive1.tar.gz) of files test1 test2 and test3?
7. In Linux Operating System, what file extension is used for executable files?

**Question #3**

1. What do you think is the role of system calls in an operating system? Explain your answer with few examples.
2. What is the Linux Shell? Name some important shells of Linux system.

**Question # 4**

Write a simple C language program to:

* 1. Start a process using fork command
  2. Get Status info of the running process
  3. Terminate the process