1. What are inode and process id?

*An inode (short for "index node") is a data structure Linux uses to store information about a file.*

*A process is nothing but a running instance of a program and each process has a unique PID(process identification number) on Linux systems.*

1. Which are the Linux Directory Commands?

*pwd, ls, mkdir, rmdir*

1. What is Virtual Desktop?

Virtual desktops are preconfigured images of operating systems and applications in which the desktop environment is separated from the physical device used to access it.

1. Which are the different modes of vi editor?

*Command mode, entry mode, last line mode*

1. What are daemons?

*programs that run continuously and exist for the purpose of handling periodic service requests that a computer system expects to receive.*

1. What are the process states in Linux?

*R – RUNNING/RUNNABLE*

*S – INTERRRUPTABLE\_SLEEP*

*D – UNINTERRUPTABLE\_SLEEP*

*T – STOPPED*

*Z – ZOMBIE*

1. Explain grep command.

*Global Regular Expression Print is a Linux command-line tool used to search for a string of characters in a specified file (regex).*

1. Explain Process Management System Calls in Linux

***fork*** *− For creating a duplicate process from the parent process.*

***wait*** *− Processes are supposed to wait for other processes to complete their work.*

***exec*** *− Loads the selected program into the memory.*

***exit*** *− Terminates the process.*

1. Explain the ‘ls’ command

*The ls command is used to list files or directories in Linux and other Unix-based operating systems*

1. Explain the redirection operator

*A redirection operator is a special character that can be used with a command, like a Command Prompt command or DOS command, to either redirect the input to the command or the output from the command*