

CSE 205	Question Bank for the Subject Linux Operating System
--------------------	---

Q. No.	Expected Question from respective Units	Marks.
Unit 1		
1	Explain Linux features in details?	8 or 7 Marks
2	What is the functionality of kernel in <i>LINUX architecture</i> ?	
3	Explain LINUX Architecture with neat labeled diagram.	
4	Explain LINUX file System tree with a diagram.	
5	Explain ls command with all its options & arguments.	
6	Differentiate between Linux and other OS?	
7	Explain boot process and run level in Linux?	
8	Write short notes on Linux Distribution?	
9	Explain major application areas of Linux?	
10	Write short notes on: <ul style="list-style-type: none"> 1. Types of OS. 2. Interface of OS: GUI and CLI (command line Interface). 3. History of Linux 	15 Marks
Q.NO	Expected Question from respective Units	
1	Enlist any 4 Linux Distribution	
2	Enlist run levels in Linux.	
3	Differentiate between GUI and CLI in linux.	
4	Enlist 2 options of ls command	
Unit 2		
1	Explain basic general-purpose utility commands in LOS?	8 or 7 Marks
2	Explain VI Editor in detail with its 3 Modes.	
3	Write short note on navigation in VI editor.	
4	What is the difference between soft link and hard link in UNIX operating system?	
5	Explain file system architecture in detail.	
6	Explain 7 file attributes associated with Linux file.	
7	How to change file permission describe with an example or explain chmod command in its both modes.	
8	Explain different file handling commands.	
9	Explain different Directory handling commands.	
14	What are the different types of shells available in LINUX. Explain each one of them with its features.	
15	Explain Shell Interpretive cycle.	
16.	Write short notes on <ul style="list-style-type: none"> 1. Searching a text in VI. 	

	2. Coping and paste Text in VI. 3. Moving around line, word and page in VI.	
17	Explain User and password management commands with example.	
Q.NO	Expected Question from respective Units	
1	file naming convention	8 or 7 Marks
2	Enlist types of shell	
3	Enlist file attributes.	
4	command syntax in shell.	
5	Enlist file types	
6	File access permissions.	
7	Is it possible to count number char, line in a file; if so, How?	
8	Explain a) mkdir b) rmdir commands	
9	Why is the shell called as command interpreter?	
10	What is the difference between ZZ and: wq commands?	
11	What is the difference between an argument and an option?	8 or 7 Marks
12	How to kill process?	
13	Explain Nice command	

Unit 3

1	Explain Disk partition management in Linux OS.	8 or 7 Marks
2	List and explain the system calls used for process management.	
3	What are the process states in LINUX?	
4	Explain process life cycle in detail.	
5	How priorities are set to process. Justify? [nice, and renice command]	
6	Explain ps command with its all options.	
7	Write a short note Mechanism of process creation.	
8	Write a short note on job Control.	
9	How will you run a process in background? How will you bring that into foreground and how will you kill that process?	
10	Explain job scheduling with at, cron and batch.	
11	Write Short note on grep with all its options.	
12	Write Short note on Sed line addressing & context addressing with an Example.	
13	Write Short note on Awk with all its options.	
Q.NO	Expected Question from respective Units	
1	What is a zombie?	
2	Explain fork () system call.	
3	What is 'inode'? Explain.	
4	ps command with 4 options	
5	What is the difference between grep and egrep	
6	Explain at command	

Unit 4		
1	Explain how to establish network connectivity in Linux Page No: 338; Richard Fox Book	8 or 7 Marks
2	Explain TCP/IP basics and also explain working of TCP/IP & Features of TCP/IP Page No: 352; Sumitabha Das Book	
3	Explain use of Network services Page No: 494; Richard Fox Book	
4	Explain use of two network files (1) /etc/hosts & (2) /etc/resolv.conf Page No: 502; Richard Fox Book	
5	Explain how to set static IP address in Linux Page No: 503; Richard Fox Book	
6	Explain how to assign dynamic IP address in Linux Page No: 504; Richard Fox Book	
7	Describe the Linux Firewall in detail Page No: 510; Richard Fox Book	
8	Write a network script to test response of an IP address Page No: 518; Richard Fox Book	
9	Explain use of SAMBA server in details Page No: 499; Linux Bible 9th Edition	
10	List and explain packages required for installation of SAMBA server Page No: 501; Linux Bible 9th Edition	
11	Explain in detail how to configure SAMBA server in Linux to share a folder Page No: 511 to 515; Linux Bible 9th Edition	
12	Explain in detail how to access SAMBA share folder in Linux Page No: 522; Linux Bible 9th Edition	
13	Explain in detail how to access SAMBA share folder in Windows Page No: 524; Linux Bible 9th Edition	
Q.NO	Expected Question from respective Units	
1	What is the difference between \$* and \$@?	
2	How do you do number comparison in shell scripts?	
3	How do you write a while loop in shell?	
4	Explain expr command.	
5	What are user-defined functions. How to use it in shell script.	
6	Differentiate between web server and web browser.	

Unit 6

1	Explain use of following commands 1. tar 2. dump 3. restore 4. cpio dump and restore on Page NO: 698, to 701 , Linux Complete Ref. 6th edition, tar and cpio from Das.
2	Explain use of following commands 1. free 2. du/df 3. top 4. netstat
3	Explain the purpose of log files and Describe the content in it. Page No: 594 (14.5) from Richard Fox CRC publication.
4	Where are the log files located . Explain any four from the following 1. boot log 2. kernel log 3. cron log 4. ftp log 5. mail log Page No: 609, Linux Bible ,9th edition
5	Explain the process for updating super user password in linux. Page NO: 558, Linux bible 9th edition , (to start in different runlevel)
6	Discuss `GRUB` boot loader failure issues and how to recover from those issues. Page No: 557; Linux Bible 9th edition
7	Explain steps to overcome the network problem that " you are computer is unable to reach other computer"
8	Page No; 573, Linux Bible 9th Edition and Page No: 610, Richard fox.
9	Write a short note on disaster planning and recovery. Page No. 604 , Ricard fox