S.NO	PRIMARY TOPICS	SUB TOPICS	POINTS TO BE COVERED
1	History of Linux	Introduction	History of Linux
'	Thistory of Linux	Introduction	Advantage of Linux
			What is Open Source Software
		License (Freeware/Paid)	Adv & Disadv of open source sw
			GNU GPL
		Software Versions (Alpha ,	What is software?
		Beta Versions)	Versions of Software
		Beta Versions)	Explanation for Versions of software
		Linux Distributions	Linux Distribution
2	Linux subsystem	Linux subsystem	1. What is subsystem
	Linux subsystem	Linux subsystem	2.What is Linux subsystem
			1. User Application
			2. O/S Services
			3. Linux Kernel
			4. Hardware Controllers
2	Kernel	Kernel Introduction	1. What is kernel
3	Kemei	Remerinitoduction	2. What is Linux kernel
		Kernel sub systems	The Process Scheduler (SCHED)
			The Memory Manager (MM)
			The Virtual File System (VFS)
			The Network Interface (NET)
			The Inter-Process Communication (IPC) subsystem
			Communications between sub systems
4	Booting process	Pre boot sequence	BIOS,
		Boot Sequence	Loading MBR into the memory from boot sector
			Information on Boot loader LILO
			Information on Boot loader GRUB
			Initial boot loader phase(Grub)
			Initial boot loader phase(Loadlin)
			Initial boot loader phase(LILO)
			System Startup process after selecting the OS
		Kernal	Kernal boot flow
		Init	inittab file
		Runlevels	Default runlevel execution process
			Runlevels in booting
			start scripts
			kill scripts
			Runlevels
			Shutdown
		Log in process	Files executed while log on process
5	Shell	Shell	what is Shell?
			Common features of shell
			what is Bash?
		Types of Shell	Ash
			Bourne
			Bash
			Corn
			T-Shell
			C-Shell
			Z-Shell
			how Shell is differ from Ms-Dos command?
		Run Levels	What is Run levels?
			Functions of Run levels
		Environmental Variables	What is environmental variables?

_	File system	Unix File System	What is File?	1
			What is Directory?	
			What is Linux File system?	
			What Linux File system contains?	
			Boot Block, Super Block, I-Node & Data Block	
			Types of Linux File System	
			Explanation about :	
			EXT2	
			EXT3	
			Difference between EXT2 and EXT3	
			EXT4	
-			ISOFS	
			SYSFS	
			PROCFS	
7		+	Disk Arrangement (Allocating)	
_			Disk Arrangement (Partition)	
7			Disk Management (Dynamic)	
-		+	Disk Management (Basic)	
-		+		
-		_	How File system is Mounted	
			1. What is journaling file system	
		Journaling File System	2. Variations on journaling	
_			3. Journaling levels	
			Important directories	1
			2. File & Directory Names	
			3. Absolute & Relative Pathnames	
			4. Changing Directories	
		11. 1	5. Listing Directory contents	1
		Understand file system	6. Copying files & Directories and The Destination	
		hierarchy	7. Moving, Renaming Files & Directories	
			8. Creating, Removing files & Directories	
			9. Using Nautilus	
			10. Moving & Copying in Nautilus	
			., .	
_		F., O	11. Determining file content	
-		File Structure	Introduction to File Structure	
4			Explanation about the directories in a file structure	
			1. Partitions & File systems	
			2. Inodes	
		Add new drives and	3. Directories	
		partitions	4. Inodes & Directories	
		partitions	5. cp & inodes	
			6. mv & inodes	
			7. rm & inodes	
7	Process Management	Process Scheduling	Inter Relationship between these components for Linux Process	1
		1	1. CPU Utilization	
			2. Throughput	
			3 Turnaround	
		Functions of Scheduler	3. Turnaround	
		Functions of Scheduler	4. Wait time	
		Functions of Scheduler	Wait time Response time	
		Functions of Scheduler	4. Wait time 5. Response time 6. Fairness	
		Functions of Scheduler	4. Wait time 5. Response time 6. Fairness 1. Normal	
			4. Wait time 5. Response time 6. Fairness 1. Normal 2. FIFO	
		Functions of Scheduler Types of scheduling	4. Wait time 5. Response time 6. Fairness 1. Normal 2. FIFO 3. Round Robin	
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			4. Wait time 5. Response time 6. Fairness 1. Normal 2. FIFO 3. Round Robin	
		Types of scheduling	4. Wait time 5. Response time 6. Fairness 1. Normal 2. FIFO 3. Round Robin 4. SJF 5. Priority Based	
			4. Wait time 5. Response time 6. Fairness 1. Normal 2. FIFO 3. Round Robin 4. SJF 5. Priority Based Assigning Priority	
		Types of scheduling	4. Wait time 5. Response time 6. Fairness 1. Normal 2. FIFO 3. Round Robin 4. SJF 5. Priority Based Assigning Priority Kill Process	
		Types of scheduling	4. Wait time 5. Response time 6. Fairness 1. Normal 2. FIFO 3. Round Robin 4. SJF 5. Priority Based Assigning Priority Kill Process Zombie	
		Types of scheduling	4. Wait time 5. Response time 6. Fairness 1. Normal 2. FIFO 3. Round Robin 4. SJF 5. Priority Based Assigning Priority Kill Process Zombie Redirection	
0	Douise Management	Types of scheduling Inter Process Management	4. Wait time 5. Response time 6. Fairness 1. Normal 2. FIFO 3. Round Robin 4. SJF 5. Priority Based Assigning Priority Kill Process Zombie Redirection Interactive & Batch Process	
8	Device Management	Types of scheduling	4. Wait time 5. Response time 6. Fairness 1. Normal 2. FIFO 3. Round Robin 4. SJF 5. Priority Based Assigning Priority Kill Process Zombie Redirection Interactive & Batch Process Pipelines	
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		Types of scheduling Inter Process Management Device Files Types of Device File	4. Wait time 5. Response time 6. Fairness 1. Normal 2. FIFO 3. Round Robin 4. SJF 5. Priority Based Assigning Priority Kill Process Zombie Redirection Interactive & Batch Process Use of Device Files What is IRQ's Character Special Files or Character Devices	
	Device Management Memory Management	Types of scheduling Inter Process Management Device Files	4. Wait time 5. Response time 6. Fairness 1. Normal 2. FIFO 3. Round Robin 4. SJF 5. Priority Based Assigning Priority Kill Process Zombie Redirection Interactive & Batch Process Pipelines Use of Device Files What is IRQ's Character Special Files or Character Devices Block Special Files or Block Devices 1. What is virtual memory	
		Types of scheduling Inter Process Management Device Files Types of Device File Manage virtual memory	4. Wait time 5. Response time 6. Fairness 1. Normal 2. FIFO 3. Round Robin 4. SJF 5. Priority Based Assigning Priority Kill Process Zombie Redirection Interactive & Batch Process Pipelines Use of Device Files What is IRQ's Character Special Files or Character Devices Block Special Files or Block Devices 1. What is virtual memory 2. How to manage the virtual memory	
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