

INDEX

S.No.	Content	Page No	Date	Remarks
1	Introduction to Operating System, Types of Operating System, Difference between Linux, UNIX and Windows and Installation of Ubuntu	1		
2	To implement the following commands in linux MAN, CAT, TOUCH, LS, SCRIPT, CD, MKDIR, RM, RMDIR, PWD	9		
3	To implement the following commands in LINUX: ECHO, WHO, WHOAMI, CP, MV, TTY, WC, TR, GREP, TEE	18		
4	To implement the following commands in LINUX: CMP, COMM, DIFF, DF, DU, FREE, WHATIS, WHEREIS, FIND, TYPE	26		
5	To implement the following commands in LINUX: SLEEP, SHUTDOWN, ; (SEMICOLON), (PIPE), & (ON AFTER THE OTHER COMMAND), SORT, HEAD, TAIL, MORE, LESS, BANNER, USERMOD	40		
6	To implement the following commands in LINUX: ADDUSER, USERADD, DELUSER, USERDEL, UMASK, CHMOD, WALL, WRITE, CUT, CAL, ULIMIT, CLEAR, FINGER	48		
7	To implement the following commands in LINUX: GZIP, ZIP, UNZIP, GUNZIP, TAR, SPLIT, PS, KILL, NOHUP, BATCH, AT, CRONTAB, NICE, TOP	61		
8	Introduction to vi Editor Introduction to Command Line Arguments Logical Statements in vi Editor	73		
9	To implement the following programs in vim editor 1. Check whether a given year is leap year or not. 2. Check whether a given number is odd or even. 3. Calculate the gross salary of an employee. 4. Input marks. Calculate the average marks. 5. To find the circumference and area of a circle.	77		
10	To implement the following programs in vim editor 1. To find the perimeter and area of a rectangle. 2. To find the factorial of a number. 3. To find the sum of digits of a number. 4. To find the reverse of a number. 5. To print the Fibonacci series	79		
11	C++ program to implement the following scheduling algorithms 1. First Come First Serve (FCFS) 2. Shortest Job First (SJF) non-preemptive and preemptive 3. Priority non-preemptive and preemptive 4. Round Robin	81		

12	To write C++ program to implement the following banker's algorithm: 1. Safety Algorithm 2. Request and Resource Allocation Algorithm	92		
13	To write C++ program to implement the following Process synchronization algorithms with semaphores: 1. Producer - Consumer problem 2. Reader - Writers problem 3. Dining - Philosopher problem	94		
14	To write C++ program to implement the following Memory management algorithm: 1. MFT 2. MVT - First fit, Best fit, Worst fit	99		
15	To write C++ program to implement the following Page fault algorithm: 1. FIFO Page Replacement 2. Optimal Page Replacement 3. Least Recently Used (LRU)	103		
16	To write C++ program to implement the following Disk scheduling algorithm: 1. FCFS 2. Shortest Seek Time First (SSTF) 3. SCAN 4. C-SCAN 5. LOOK 6. C-LOOK	107		