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MCA DEGREE FIFTH SEMESTER EXAMINATION, JANUARY 2022
19-381-0515 LINUX AND SHELL PROGRAMMING
(Regular)

Time: 3 Hours

Maximum Marks: 50

(Answer ANY FIVE questions)
(All questions carry EQUAL marks)

	QUESTIONS	Marks	CO	BL	PI
1.	(i) List the command to create user account, and add group to the user account.	5	CO1	L2	1.3.1
	(ii) Explain the following UNIX commands: who, ls, cal, date, man.	5			
2.	What is the role of an inode? How does it affect the i-node when you perform the following activities? (i) Create a file with a name hello.txt and also add hard link for the file. (ii) Create a file with a name hi.txt and also add Symbolic link for the file.	10	CO2, CO4	L2	1.3.1
3.	Create a file "data.txt" and add some content into the file. Perform the following using grep. (i) Select lines starting with any uppercase character (ii) Select lines that start with A, B, or C (iii) Count the number of lines that starts with a number (iv) Count the occurrences of a word "the" in the file .	10	CO4	L3	1.3.1
4.	(i) Explain the process of yanking with an example.	5	CO3	L2	1.3.1
	(ii) Explain how to search and replace a string in vi editor with an example.	5			
5.	Discuss the need for shell scripting in Linux and also the method to run the shell script with a suitable example.	10	CO5	L2	1.3.1
6.	Write a shell script which will receive any number of filenames in the current directory as an argument. The shell script should check every argument supplied is a file or a directory. If it is a directory then list the files in the directory. If it is a text file then display name of the file as well as the number of lines present in it should be displayed.	10	CO5	L3	2.1.2
7.	(i) Compare PID and PPID	2	CO6	L2	1.3.1
	(ii) Differentiate fork() and exec() system call with an example	8			
