K.S INSTITUTE OF TECHNOLOGY, BENGALURU-560109

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

18CS56-UNIX PROGRAMMING

EXHAUSTIVE QUESTION BANK

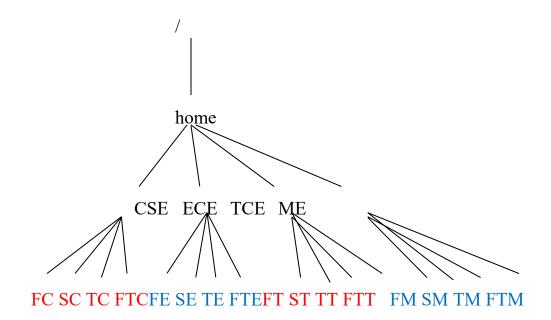
MODULE-I

- 1. Explain the architecture of UNIX operating system with a neat diagram(8)
- 2. Illustrate with a neat diagram the typical UNIX file system and explain different types of files supported in UNIX.(8)
- 3. Explain/compare internal and External commands with examples(4)
- 4. Explain salient features of UNIX operating system(7)
- 5. Explain parent child relationship of UNIX file system with a diagram.(6)
- 6. Explain with example Absolute pathname and relative pathname.(6)
- 7. Describe command arguments and options with suitable examples (4)
- 8. Define a file. With examples explain three categories of files supported by UNIX.(8)
- 9. Briefly describe:
 - a. System call b. PATH c.HOME d. date e. who f. ls

(6)

- e. printf
- 10. How an ordinary user can become a superuser and vise versa? Explain with example.
- 11. Briefly describe commands with example (8)
 - a. pwd b. cd c. mkdir d. rmdir
- 12. Name the command used for creating, deleting and changing directory. Explain with suitable syntax and example.

13. Write the command sequence for creating tree structure. Create a file by name country.txt in /home/CSE/FC, write the command to copy file country.txt from /home/CSE/FC to SE, TT and FTM directory.



14.Draw the tree structure of the file system created by the following commands(Assume you are in the directory /usr/office). Why is it not possible to issue the command rmdir /usr/office/right (8)

\$mkdirleft

\$mkdir middle

\$mkdir right

\$ cd left

\$mkdir left middle right

\$cd ../middle

\$mkdir dir1 dir2 /usr/office/right/dir3

15. Assume you are in /home/Karthik, which of the following commands will work when executed in sequence? Explain the proper reason.

mkdir a/b/c →mkdir a a/b

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mkdir a a/b a/b/c \rightarrow rmdir a/b/c \rightarrow rmdir a a/b \rightarrow mkdir a/p a/q a/p/r	
Draw the final tree for directory a.	(7)
16.Explain the significance of dot (.) and double dots () notations to repr	resent
present and parent directories and their usage in relative path names.	
17. Write the command line to perform the following	

- a. Change current directory to home directory
- b. Change to parent directory. (2)
- 18. Explain the following commands with suitable example for each.
 - a. cat b. rm c. mv d. cp