

## VI SEMESTER B.TECH (OPEN ELECTIVE)

### MAKE UP EXAMINATIONS, JUNE/JULY 2016

### SUBJECT: LINUX BASICS AND PROGRAMMING [CSE 336]

#### REVISED CREDIT SYSTEM

Time: 3 Hours

08-07-2016

MAX. MARKS: 50

#### Instructions to Candidates:

- ❖ Answer **ANY FIVE FULL** questions.
- ❖ Missing data, if any, may be suitably assumed.

- 1A Differentiate between static libraries and shared libraries. Explain directory files and device files with example. (1+3)M
- 1B Explain with an example for the following features of Unix system: 3M
- i) Multiprogramming
  - ii) Multiuser
  - iii) Multitasking
- 1C How is internal command different from external command? What is the output of \$who -Hu? (2+1)M
- 2A Describe absolute pathname with an example. 2M
- 2B What will be the output of following commands when your pwd is examFolder with respect to fig. 2.b.1? 3M
- i) \$rm -rf day2Folder
  - ii) \$mv day1Folder day3Folder/sub31Folder
  - iii) \$file \*

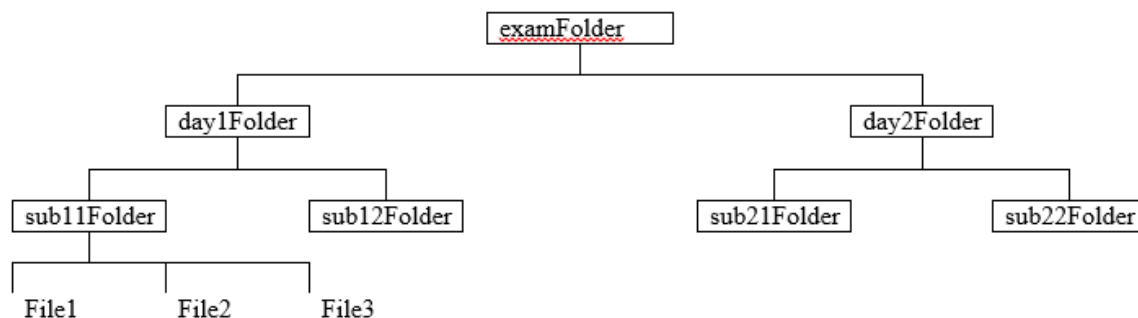


fig. 2.b.1

- 2C Explain the command used to change the file permissions. Also, describe the different methods in which it can be used with suitable examples. 5M

- 3A Explain the different situations where the hard links are used? 3M
- 3B Explain find command with proper syntax and example. 2M
- 3C Write an interactive shell script to reverse a given number using command line arguments. 5M
- 4A Write an interactive shell script which checks whether a given number is prime or not using a function. 5M
- 4B Explain the functions of tee command with an example. 2M
- 4C What is a file descriptor? Explain how these file descriptors are used for redirection? 3M
- 5A Explain case statement with example. 3M
- 5B Write a command to do the following: (1+1+1)M
- i) To open last modified file using head command.
  - ii) To sort a file containing numbers.
  - iii) To delete ';' and '#' in a given file.
- 5C Explain how to slit a file vertically column wise and field wise. 4M
- 6A What are the different ways, (2+2)M
- i) of running a process in the background?
  - ii) to schedule a job to run at a specified time of the day.
- 6B What are the activities performed by shutdown command? 3M
- 6C Explain the following task performed by cpio command with an example for each: 3M
- i) Backing up files
  - ii) Restoring files
  - iii) Displaying the archive