Examination	: Second Sessional	Seat No.	: _____
Date	: 25/09/2013	**Day**	: Wednesday
Time	: 9:30 to 10:45	**Max. Marks**	: 36

INSTRUCTIONS:
1. Figures to the right indicate maximum marks for that question.
2. The symbols used carry their usual meanings.
3. Assume suitable data, if required & mention them clearly.
4. Draw neat sketches wherever necessary.

Q.1 Answer the Following : [12]

(A) Write command(s) to perform the following tasks: [3]
1) To list out attributes of directory along with inode number.
2) To change the default directory permission of any directory to
rwxr-----
3) Assume that file a.txt contains 20 lines. Using VI editor
commands, copy from current line up to line 17 in file b.txt

(B) State and explain output(s) of following: [5]
1) x=5;PS1="[\! \h $PWD $PS1 $x]"
2) After above command if unset x is executed then what will be the
change in prompt? Why?
3) lp a[0-4][0-9]*.???
4) (i) ls .   (ii) ls ..
5) (i) ls .*   (ii) ls . *

(C) Differentiate the outputs of following commands: [4]
1) ls -lia | tee Device   v/s   ls -lia>Device
2) rm *.[!cpp]   v/s   rm *.[!c][!p][!p]

Q.2 Answer the following. [12]
(A) Describe file descriptors 0,1 and 2 in detail [3]
(B) Describe hard link and soft link in detail. [3]
(C) Describe following commands [4]
   1)chgrp   2)touch   3)tee   4)paste
(D) Differentiate the local and environment variables. [2]

OR

Q.2 Answer the following. [12]
(A) Explain different ways to change file permissions with example. [3]
(B) Discuss the modes of Vi editor in detail. [3]

(C) Consider following commands are executed in sequence and content of **[6]** ddu is "Hello Students". Describe output of all command.

    ln ddu computer
    ln computer mech
    ln -s ddu it
    ln -s computer ec
    ln -s ec ch
    ln -s mech ic
    cat ch
    rm computer
    cat it
    cat mech
    cat ec
    cat ch
    cat ic

Q.3 Answer the following: **[12]**
(A) Consider content of ddu.txt file as follows.   **[3]**
         Roll_NO:Name:CPI:SUBJECT
         1:ABC:9.1:LOSP
         2:DEF:8.3:C_Prg
         3:MNO:6.2:BEEE
         4:HIJ:4.6:EG
         5:XYZ:7.6:MATHS
         6:GHI:6.9:EM
         From this retrieve all the student's name and CPI in sorted order (as per
         name) and store that sorted output in file named as myfile.txt
(B) Consider above file (ddu.txt) and in that file using vi editor change   **[2]**
         name of subject C_Prg to C_PROGRAMMING
(C) Explain use of following meta characters with example: **[4]**
         (i) *   (ii) { }
         (iii) [ ]   (iv) !
(D) Explain use of pipe (|) in Linux.   **[3]**

OR

Q.3 Answer the following: **[12]**
(A) find $HOME \(\(-type -f -o -name *.?\) ! -perm 744\) -exec mv {} ./MyFolder \   **[3]**
         Is this command line valid? If yes, what will be the output?
(B) Explain following commands in detail.   **[2]**
         1)history   2) alias
(C) Explain directory permissions in detail.   **[4]**
(D) Explain head and tail command in detail.   **[3]**

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