ML-3772
Third Year B. C. A. (Sem. V) Examination
October / November - 2015
Paper-502 : UNIX & Shell Programming

Time : 3 Hours]   [Total Marks : 70

Instructions :

(1)

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| Fillup strictly the details of ☞ signs on your answer book. |
| Name of the Examination : |
| ☞ THIRD YEAR B.C.A. (SEM. V) |
| Name of the Subject : |
| ☞ PAPER-502 : UNIX & SHELL PROGRAMMING |
| ☞Subject Code No. : 3 7 7 2 ☞Section No. (1, 2,.....) : Nil |

Seat No. :

Student's Signature

(2)   Figures on the right indicate marks.
(3)   Take assumptions whenever necessary.

1   Answer in short : (any seven)   14
1.   Explain the purpose of super block.
2.   Which command of vi editor is used to display line number before each line?
3.   What is the function of mv command?
4.   What do you mean by a daemon? List out them. How will you kill a daemon?
5.   What is major and minor number?
6.   Explain the use of tee command.
7.   Define redirection. List out the symbols used for redirection.
8.   Differentiate between $@ and $*.

2   Answer the following : (any two)   14
1.   Explain the directory structure of UNIX.
2.   Explain booting sequence with init process.
3.   Explain the modes of vi editor.

**3   (a)   Discuss Relative and Absolute File Access   6
          Permissions with example.**
**   (b)   Write a shell script to check the entered no is   5
          palindrome or not.**

OR

ML-3772]   1   [Contd...

(b) Write a shell script to test that the file is a readable file or not. **5**

(c) Explain find command. **3**

4 (a) What do you mean by link ? Give the difference between soft link and hard link ? Also write disadvantage when using soft link. **5**

OR

(a) Explain Insert, Append and change command of sed. **5**

(b) Write commands for following (Any five) : **5**
   1. Display lines 1 to 5 from files xl.
   2. Display last word of each line from a file xl
   3. To count number of characters in first line of file xl.
   4. To count number of words in line 40 thought 60 of file fl.txt.
   5. To delete all special characters from the file xl.
   6. Display all line that start with 'let', from a file xl. The letters l , e or t may be in any case.

(c) Explain any two commands from following : **4**
   i) date
   ii) ln
   iii) bc.

5 (a) Explain any two communications between users' commands in unix. **5**

(b) Write a command using sed for the following : (any five) **5**
   1. Substitute `endif with 'fi' on line 10 of file Xl.
   2. Display three lines starting from 5th line of file Xl.
   3. Display all line before string "Unix" from file Xl.
   4. Display all blank lines between line 10 and 20 of file Xl.
   5. Display lines beginning either with alphabet or digit from file Xl.
   6. Display the lines that do not contain "Unix".

(c) Write note on pattern matching feature of awk utility giving example. **4**