B.Tech Degree Examination
Sixth Semester

CS010 606 L04 : UNIX Shell Programming
Model Question Paper

Duration: 3 Hrs   **Max. Marks: 100**

PART-A (Answer All Questions)
(5x3=15 marks)

1. Draw the architecture of UNIX Operating System

2. Write UNIX commands to perform the following operations.

   - Copy the content of one text file to the end of another text file.
   - To list the files in a directory date wise

3. Show the usage of 'grep' command with an example.

4. Show the looping feature of bash shell with an example.

5. Write the usage of

   - ping
   - ns lookup commands

PART-B (Answer All Questions)
(5x5=25 marks)

1. Draw the schematic diagram of UNIX structure and briefly explain its features.

2. How many options are available for 'cal' command. How they works.

3. Define an editor and explain the differences between editor and a word processor.

4. What are the startup and shutdown files for each shell

5. Show the result of the 'sed' command.
   `sed ''a/bc,*/ % /*` on the following file

   aaabbbcccddd
   aaaabcaaaa
   aaaaabc
   aabbaaa

PART-C (Answer All Questions)
(5x12=60 marks)

1. Write each of the following logic expression in korn shell.

   - `(x==5) && (y>10)`
   - `(x<=y) || (y>10)`
   - `(x!=y)||(x>7) &&(y<=x)`

OR

2. Show the way to repeat a command 100 times using

   - until
   - for
   - while loop
   - for-in loop

3. Explain the concept of piping and pipe operator with respect to 'C' shell. Write examples.

OR

4. Define a filter. List filter utilities of UNIX.

5. Define 'sort' command. What is its general applications. Can the input from sort command come from a file? If yes then show the same with examples.

OR

6. Write a bash shell script which displays system date and time. Change the date through the shell program as Jan 1,2013.

7. Define a regular expression. Compare regular expression with math expression. Name the components of regular expression.

OR

8. Write vi commands for

   - deleting a word,line.
   - replacing a character.
   - copy and paste 10 lines.
   - cut and paste 10 lines.

9. What is a process? How to create and destroy processes in UNIX. Show examples.

OR

10. How the processes can be viewed and managed through shell. Show with examples.