END TERM EXAMINATION

FOURTH SEMESTER [MCA] MAY-2010

PAPER CODE: MCA-204	**Subject: Linux and X-Windows Programming**
Paper Id: 44204	

Time: 3 Hours   **MaximumMarks:60**

Note: Question 1 is compulsory. Attempt one question from each Unit.

Q1. Differentiate between following:
    (a) X-Client and X-Server   **(4x5)**
    (b) File system of windows Vs File system of Linux.
    (c) ext2 Vs ext3 inode
    (d) Bash , TCSH and Korn shell

Unit-I

Q2.(a) Describe briefly Linux architecture.   **(5)**

  (b) Compare UNIX and Linux in terms of cost, platforms, copyright,GUI,Shell,Kernel,etc.**(5)**

Q3.(a) Briefly explain the startup scripts of Linux   **(5)**

  (b) " The Linux Firewall has more Functionality than Windows " Agree or Disagree ?

Justify your answer   **(5)**
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Unit-II

Q4. (a) What do you understand by term mounting a device? Explain how devices are treated in Linux File System.   **(5)**
   (b) What are various file permissions which could be given? How rights could be given and revoked?   **(5)**

Q5. (a) How file system can be checked and repaired?   **(5)**
   (b) Define the following concepts:-   **(1x5)**

    (i)   Fork
    (ii) Pipe
    (iii) Shell
    (iv) Inode
    (v) Superblock

Unit-III

Q6. (a) What are the various kinds of variables available in shell scripts? Describe their naming conventions   **(4)**

  (b) What is Global Shell variable and how it is created?   **(3)**

  (c) Write a shell script to read 10 numbers, sort them and display them   **(3)**

Q7. (a) Explain " grep " utility with its various options: **(3)**
  (b) How Shell scripts are executed? **(3)**
  (c) Write a shell script to print prime numbers between 1 to 100. **(4)**

Unit-IV

Q8. (a) Explain window manager in brief. **(5)**
  (b) Explain following commands: **(5)**
  xfd   xlsfonts   xset   xterm   xrdb

Q9.(a) How key board event is handled in X Windows? Give an Overview of drawing graphics. **(5)**

(b) Explain KDE and Gnome in brief. **(5)**

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