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Total No. of Pages : 02

Total No. of Questions : 09

MCA (2013 and 2014 Batch) (Sem.-2)

LINUX OPERATING SYSTEM

Subject Code : MCA-205

Paper ID : [B0137]

Time : 3 Hrs.

Max. Marks : 100

INSTRUCTION TO CANDIDATES :

1. **SECTIONS-A, B, C & D contains TWO questions each carrying TWENTY marks each and students has to attempt any ONE question from each SECTION.**
2. **SECTION-E is COMPULSORY consisting of TEN questions carrying TWENTY marks in all.**
3. **Use of non-programmable scientific calculator is allowed.**

SECTION-A

1. Discuss the following :

- a) Linux File System
 - b) Advantages and Disadvantages of Linux Operating System
 - c) Architecture of Linux Operating System
 - d) Linux Shared Memory Management
2. a) What are the facilities provided by GNOME to users? Explain each of them in detail. Differentiate between KDE and GNOME.
 - b) X Windows system is responsible for graphical user interface in Linux. What are the elements of X Window System?

SECTION-B

3. a) Explain how to Manipulate Users and groups using Linux Conf.
 - b) What are SetUID and SetGID in LINUX? Explain with example.
4. Explain fedora package manager. Write the necessary steps to install and uninstall package using dpkg and RPM.

SECTION-C

5. Write notes on :
- a) BASH Shell
 - b) KORN Shell
 - c) C Shell
- List their commands.
6. a) Which command is used to change permission associated to File/Directories? List and explain methods to change permission of File/Directories.
- b) Write notes on :
- i. Vi Editor
 - ii. Pico
 - iii. Joe

SECTION-D

7. What is LILO? Explain the procedure for configuring LILO in Linux. What are the differences between GRUB and LILO?
8. Explain various tools and their role in QUATA Management in detail. Describe commands for file management operations in fedora.

SECTION-E

9. **Write short notes on :**
- a) What is the basic difference between BASH and KORN?
 - b) Define shell and shell variable.
 - c) What is the pwd command?
 - d) What are the kinds of permissions under Linux?
 - e) What is grep command?
 - f) What is LILO?
 - g) What are the basic components of Linux?
 - h) Describe the following commands - chmod, chown.
 - i) Write the necessary steps for booting.
 - j) What is X Windows?