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**Total No. of Pages : 02**

**Total No. of Questions : 09**

**MCA (2015 & Onwards) (Sem.-2)**

**LINUX OPERATING SYSTEM**

**Subject Code : MCA-205**

**Paper ID : [72880]**

**Time : 3 Hrs.**

**Max. Marks : 60**

**INSTRUCTIONS TO CANDIDATES :**

1. **SECTIONS-A, B, C & D** contains **TWO** questions each carrying **TEN** 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) Components of Linux Operating System
  - b) Linux System Calls
  - c) Features of Linux Operating System
  - d) Linux Shared Memory Management
2. Describe history of X Windows system. What are the elements of X Window System?

**SECTIONS-B**

3. How you can create, modify or delete a user account in LINUX? Explain all the steps with suitable example.
4. How to compile software in LINUX? What are steps for getting and unpacking Package?

### SECTION-C

5. What is BASH Shell? Explain any 8 Commands of it in detail.
6. Write notes on Pico, vi editor and their modes.

### SECTION-D

7. Explain various tools and their role in QUATA Management in detail. Describe commands for file management operations in fedora.
8. Write steps for installing LPRng and configuring etc/printcap in LINUX operating system.

### SECTION-E

**9. Answer briefly :**

- a) What is BASH?
- b) What is Linux?
- c) What is the difference between UNIX and LINUX?
- d) What is CLI?
- e) How do you access partitions under Linux?
- f) What are the different modes when using vi editor?
- g) What is redirection?
- h) What is the core of Linux Operating System?
- i) What is Kernel?
- j) How secured is Linux?