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Total No. of Pages: 02

Total No. of Questions: 09

**MCA (2015 & Onwards) (Sem. – 2)**

**LINUX OPERATING SYSTEM**

**M Code: 72880**

**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 and students have to attempt any **ONE** question from each **SECTION**.
2. **SECTION-E** is **COMPULSORY** consisting of **TEN** questions carrying **TWENTY** marks in all.

**SECTION A**

1. Define Operating System? Discuss its various types. Also discuss the important features of Linux Operating System over other Operating Systems.
2. How is file system and directory structure in LINUX organized? Discuss by taking suitable example.

**SECTION B**

3. How are users managed in LINUX OS? Discuss by taking suitable example.
4. How are packages installed, uninstalled and configured? Give suitable example.

**SECTION C**

5. Discuss the various Editors and Miscellaneous tools available in LINUX.
6. Differentiate between various shells in LINUX. List and define various ownership and permission manipulation commands.

**SECTION D**

7. What are the various core system services and Printing Services in LINUX. Describe in brief.
8. Discuss the various steps of booting and shutting down processes in LINUX. How to add a new Kernel to boot?

## SECTION E

9. Write short notes on:
- a) Dual booting issues
  - b) Modes of Installation
  - c) GRUB
  - d) Installing LPRng
  - e) Vi and its Modes
  - f) SetUID and SetGID
  - g) Capabilities of Super Users
  - h) Creating a Boot Disk
  - i) GNOME and KDE
  - j) Shell and shell scripts.