

MCA-2014

LINUX OPERATING SYSTEM

Paper Code (MCA-205)

Paper Id. [B0137]

Note: Attempt five questions in all. Select one question each From Section (A to D). Section E (Question no. 9) is Compulsory. Each Question is of 20 Marks.

Max Marks: 100**Time:3hrs****Section A**

- Q1:(a) What is Linux? List out the steps of installing Linux in detail. (10)
(b) What are the duties and capabilities of Super Users? (10)
- Q2: (a) Compare and contrast Multi-processing and multi-threading in Linux. (10)
(b) What is File System? Explain the Directory Structure of Linux. (10)

Section B

- Q3: (a) Explain the installation and uninstallation of a new Package using dpkg and RPM. (10)
(b) How Groups and Users can be manipulated using LinuxConf? (10)
- Q4: (a) Discuss the /etc/group, /etc/passwd and /etc/shadow files. (10)
(b) Explain the use of setUID and setGID. (10)

Section C

- Q5 :(a) Broadly Explain different Editors of Linux. (10)
(b) Write a short note on File and Directory Permissions. (10)
- Q6 :(a) Compare and contrast Pipes and Redirection. (10)
(b) How Files and directory Permissions can be changed in Linux? (10)

Section D

- Q7: (a) Explain Booting and Shutting Down mechanism of Linux. (10)
(b) What is Network File System? How File Systems can be managed? (10)
- Q8:(a) Explain syslogd Daemon and cron in detail. (10)
(b) What is lpd? Explain in detail with suitable examples. (10)

Section E

(Compulsory Question)

Q9: Write short notes on following with help of example/diagram if needed:

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| (a) Korn Shell | (2) |
| (b) System Call | (2) |
| (c) RPM | (2) |
| (d) man command | (2) |
| (e) Cron | (2) |
| (f) GNOME | (2) |
| (g) su command | (2) |
| (h) KDE | (2) |
| (i) Dual-Booting | (2) |
| (j) Fedora Package Manager | (2) |

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