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MCA (Sem. - 2nd)

LINUX OPERATING SYSTEM

SUBJECT CODE : MCA - 205 (2012 Batch)

Paper ID : [B0137]

Time : 03 Hours

Maximum Marks : 100

Instruction to Candidates:

- 1) Attempt any One question from each Section - A, B,C & D.
- 2) Section - E is **Compulsory**.

Section - A

(1 × 20 = 20)

- Q1)** a) What are various features of Linux OS as compared to other Operating systems?
b) What are dual booting issues while installing Linux in a server configuration?
- Q2)** a) What are Linux system calls? How memory management is done in Linux?
b) Explain Linux File system and directory structure in detail.

Section - B

(1 × 20 = 20)

- Q3)** How can we install and uninstall new software package using rpm and dpkg in Linux? Explain in detail?
- Q4)** a) What is purpose of groupadd command? What are various options used with this command? How is password given to newly created user account?
b) How can you disable the user account so that he cannot log in temporarily? Explain all different methods.

Section - C

(1 × 20 = 20)

- Q5)** a) Create a file foo. How do you assign all permissions to the owner and remove all permissions from others using
- i) Relative assignment
 - ii) Absolute assignment? Do you need to make any assumptions about foo's default permissions?
- b) How can you change the file and group ownership?
- Q6)** a) What are differences between BASH, KORN and C shell?
- b) Explain vi editor and its various modes in detail.

Section - D

(1 × 20 = 20)

- Q7)** a) Describe the process of booting. Name two boot loaders of Linux and how will you configure them?
- b) How quota management is implemented and monitored? How disk partitioning is done?
- Q8)** a) How will you install a new printer in Linux? What are various printer configuration files and how printing interface is available through OS?
- b) What task is performed by init service? Elaborate purpose of inetd and xinetd processes.

Section - E

Q9) (10 × 2 = 20)

- a) What is Active Directory?
- b) Full form of GNOME and KDE?
- c) If a file's permissions are 000, can super user still read and write the file?
- d) What command is used to change the user account?
- e) What is man command used for?
- f) What does this command do? `chmod a-w foo`
- g) What are pipes and redirection used for?
- h) How can you enable and disable a service in Linux?
- i) What is the purpose of syslogd daemon?
- j) How can you add a new disk partition in Linux?

