

(b) wc

(c) tee

(d) kill.

13. Write the procedure for the following :

(a) Booting from an external disk

(b) Mounting a CD-ROM

(c) Creating a new file system

(d) Backup and restore.

## **MCA-305**

**June – Examination 2023**

### **MCA (IIIrd Year) Examination**

**Linux Administration System**

**Paper : MCA-305**

*Time : 3 Hours ]*

*[ Maximum Marks : 80*

*Note :-* The question paper is divided into three Sections A, B and C. Write answers as per the given instructions.

**Section-A**

**8×2=16**

**(Very Short Answer Type Questions)**

*Note :-* Answer all questions. As per the nature of the question delimit your answer in one word, one sentence or maximum up to **30** words. Each question carries 2 marks.

1. (i) What is swap space ?

- (ii) Give any *two* differences between Open Source and Freeware Softwares.
- (iii) What is the use of a Live CD ?
- (iv) Which command is used to find the block size on your file system in LINUX ?
- (v) What is the function of *man* command ?
- (vi) What is GRUB ?
- (vii) Is it legal to edit the linux kernal ? Justify.
- (viii) What is system variable ? Give an example.

**Section-B** **4×8=32**

**(Short Answer Type Questions)**

*Note* :- Answer any *four* questions. Each answer should not exceed **200** words. Each question carries 8 marks.

- 2. Differentiate between POP3 and IMAP.
- 3. Describe the system call in Linux OS. Explain its different types.
- 4. Draw and explain the functional model of UNIX/ Linux operating system.

- 5. What is the mechanism of a pipe in Unix ? Explain with suitable example.
- 6. How is the shell script created and executed ? Explain the step with example.
- 7. Explain in brief the network file system.
- 8. Describe various Linux file permissions with suitable examples.
- 9. Write and explain commands used for text editing in VI editor.

**Section-C** **2×16=32**

**(Long Answer Type Questions)**

*Note* :- Answer any *two* questions. You have to delimit your each answer maximum up to **500** words. Each question carries 16 marks.

- 10. What is kernel ? Explain its architecture and working.
- 11. Differentiate between RISC and CISC.
- 12. Describe the following file commands in Linux :
  - (a) cat