

11. Write a short note on the X-Window system.
12. Describe Linux File System. Explain the purpose and use of the following directories in Linux File system :
- (a) /usr/bin
  - (b) /etc
  - (c) /dev
  - (d) /usr/spool.
13. How do you perform the following in Linux as a system administrator ?
- (a) Setting the login message
  - (b) Setting up of e-mail

## **MCA-305**

**December – 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 DNS ?
- (ii) Give any *two* differences between system call and function call.
- (iii) If 'mkdir sample' command fails to execute, what could be the possible reason ?
- (iv) What do you mean by Boot Loader ? Name any *one*.
- (v) What is an *inode* ?
- (vi) What is the role of shell in Linux ?
- (vii) What do you mean by Open Source ?
- (viii) Give a brief overview of KDE ?

**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 *if* and *case* statements in shell programming.

3. Explain the configuration of FTP server and client.
4. Write a note on the contents of the etc/passwd file.
5. What is a boot loader ? Write a note on GRUB or LILO.
6. How do you copy, move and rename files in Linux ?
7. Explain different email Protocols with their functions.
8. Explain how a user is login in Linux. What are the processes involved ? What happens when a user logs out but the system is not powered off ?
9. Write a short note on 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. Describe various distributions of Linux Operation System.