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. Discuss various types of file systems available on Linux. Write the steps of creating a file system with a suitable example.

11. How does SSH (Secure Shell) ensure secure communication between a client and a server ? Describe the process of setting up an SSH server and client on a Linux System.

12. Describe the following commands in Linux with suitable examples :

    (a) chown

    (b) chmod

    (c) expr

    (d) grep

13. What is a process in Linux ? Also, differentiate between background and foreground processes. Explain various process management commands with suitable examples. Also, explain the role of kill, command for managing process.

MCA–305

June – Examination 2024

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 the use of *man* command ? Give an example.

   (ii) Give *two* differences between the user and root accounts.

   (iii) What are the key differences between Proprietary, Open-source and Free Software ?

   (iv) What do you mean by Network Shiffing ?

   (v) What is the usage of GIMP ?

   (vi) What do you mean by Boot Loader ? Name any one.

   (vii) What do you mean by Samba ?

   (viii) Give a brief overview of Open Source Software.

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. Write a shell script to accept a valid filename and directory name from the user, check for their existence and display a suitable message. In case both exist display the contents of the file.

3. Explain the pipe feature in Unix/Linux with example.

4. Define Variables. What are the different types of variables used in a shell script ?

5. What is the purpose of the LILO Boot Manager ? Write the method of installing and updating LILO.

6. Differentiate between RISC and CISC.

7. Describe the basic architecture of a Unix/Linux System.

8. Explain creating a basic website in Apache Web server. Also, explain some of the performance parameters in the Apache Web Server with suitable example.

9. Write steps to configure a network interface with IP and explain some common tools that help troubleshoot networking.