K24P 4505

Reg. No. : ....

Name : ....

I Semester M.C.A. Degree (C.B.S.S. – Reg./Supple./Imp.)
Examination, November 2024
(2021 Admission Onwards)
MCA1C05 : LINUX ADMINISTRATION

Time : 3 Hours

Max. Marks : 60

SECTION – A

Answer **all** questions. **Each** question carries two marks.

(10×2=20)

1. Explain the use of getty program.

2. Differentiate between the commands – 'cron' and 'at'.

3. What is a file system ?

4. What is meant by tcp wrappers ? Which are the configuration files it relies on ?

5. Explain the role of streams in managing input and output operations.

6. What is the significance of group ID of a process ?

7. Explain default gateway.

8. List the commands used to display all network interfaces under Linux OS.

9. What is POP ? How is a mail transmitted ?

10. What are the benefits of using a secondary DNS server ?

P.T.O.

SECTION – B

Answer **all** questions. **Each** question carries **eight** marks.   **(5×8=40)**

11. a) What are the various run levels in Linux ?

    OR

    b) Explain the important components of a Kernel.

12. a) How can log files be effectively utilized for system maintenance ?

    OR

    b) What is a home directory ? Briefly explain the commands to implement the following :

       i) Create directory

       ii) List directory

       iii) Change directory

       iv) Rename directory

       v) Remove directory.

13. a) Create a program that demonstrates the First-In-First-Out (FIFO) principle by performing a read operation followed by a write operation.

    OR

    b) Explain inter-process communication with semaphore.

14. a) What is web server ? Explain its working.

    OR

    b) What is a samba server ? Illustrate the services provided by samba server.

15. a) What is DNS ? How does it work ?

    OR

    b) Explain the need of MIME.

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