

END SEMESTER EXAMINATION - MARCH 2024
SEMESTER 6 - INTEGRATED M.Sc. PROGRAMME COMPUTER SCIENCE
COURSE : 21UP6CRMCP18 - LINUX AND SHELL PROGRAMMING
(For Regular - 2021 Admission)

Time : Three Hours

Max. Weightage : 30

PART A

Answer any 8 Questions

1. Explain the role of comments in a shell script.
2. The _____ command allows you to search for files based on their names or content.
3. Mention the email clients in Linux.
4. Expand and describe PAM.
5. List the key options used with the umount command for unmounting file systems.
6. Mention the hardware requirements of installing Linux OS.
7. Define Kernel.
8. State the purpose of 'chrt' command.
9. Recall the basic syntax of the fdisk command.
10. In Bash, you can create and use _____ to simplify frequently used commands.
(1 x 8 = 8 Weight)

PART B

Answer any 6 Questions

11. Explain with an example how to delete a disk partition.
12. Explain GRUB in detail.
13. Explain the difference between and giving suitable examples.
14. Discuss password aging policies in detail.
15. Describe the role of the "htop" utility in identifying and managing CPU and memory usage in Linux.
16. Write short note on environment variables.
17. List the key options or parameters available with the fdisk command.
18. Explain the mathematical commands in Linux.
(2 x 6 = 12 Weight)

PART C

Answer any 2 Questions

19. Define various file types in a Linux file system and discuss their characteristics and examine the role of file permissions in file management.
20. Explain processor scheduling in detail.
21. Write a shell script to create a menu driven calculator and explain the script in detail.
22. a. Compare any five Linux distributions and its features. b. Explain its advantages.
(5 x 2 = 10 Weight)