

**END SEMESTER EXAMINATION - MARCH 2025****SEMESTER 6 : INTEGRATED M.Sc. PROGRAMME COMPUTER SCIENCE****COURSE : 21UP6CRMCP18 : LINUX AND SHELL PROGRAMMING***(For Regular 2022 Admission and Supplementary 2021 Admission)*

Time : Three Hours

Max. Weightage: 30

**PART A****Answer any 8 Questions**

1. Define mounting.
2. Describe the process of setting up permissions on a shell script.
3. List the contents in /etc directory.
4. Describe the purpose of 'netcat'.
5. The option you would use to specify the delimiter when using cut is \_\_\_\_\_.
6. Write about FSF.
7. Provide the default file permissions in Linux.
8. Explain the role of comments in a shell script.
9. Give the default output format of the factor command.
10. Mention the types of Kernel.

**(1 x 8 = 8 Weight)****PART B****Answer any 6 Questions**

11. Brief on the importance of mounting.
12. Explain chmod command and its various modes in detail.
13. Explain the rules of naming a file.
14. Explain sort command in Linux.
15. Compare and contrast the use of grep with egrep in terms of regular expression support.
16. Discuss about parent and child processes.
17. Explain how to obtain user input via keyboard directly.
18. Briefly explain runlevels in booting process.

**(2 x 6 = 12 Weight)****PART C****Answer any 2 Questions**

19. Give description for each of the operators given below. (a) semicolon (b) ampersand (c) dollar followed by a question mark (d) double ampersand (e) double vertical bar f. backslash
20. Devise a step-by-step guide for partitioning a new disk using the fdisk command.
21. Develop a shell script for adding a user account.
22. Differentiate between kill, killall and xkill.

**(5 x 2 = 10 Weight)**