Reg. No ..... Name **23U152**

B.C.A DEGREE END SEMESTER EXAMINATION : NOVEMBER 2023

SEMESTER 1 : MOBILE APPLICATIONS AND CLOUD TECHNOLOGY

COURSE : **19U1CRBCA3 : INTRODUCTION TO LINUX**

(For Regular 2023 Admission and Improvement/Supplementary 2022/2021/2020/2019/2018/2017/2016 Admissions)

Time : Three Hours Max. Marks: 75

PART A

Answer All (1 mark each)

1. What is kernel mode?
2. Define pattern in vi editor.
3. What is relative address of a process?
4. What are the two types of backup in Unix environment?
5. What is the open() file system call?
6. Define operating system.
7. How to make a task run in the background even when the user is not currently on the system?
8. What do you mean by double indirection mechanism?
9. What is the use of wall command?
10. What is uucp command?

(1 x 10 = 10)

PART B

Answer any 8 (2 marks each)

11. Differentiate between submit and ready state of a process.
12. How to create a file in vi editor? Explain with example.
13. Write short note on startup of the system.
14. What is the need of 'su' command?
15. What do you mean by multi-user system?
16. What is the difference between write() and read() system call?
17. Define kernel mode and user mode.
18. How to implement a system call?
19. What are the different options to quit from vi editor?
20. What are the limitations to run a process in the background?

(2 x 8 = 16)

PART C

Answer any 5 (5 marks each)

21. Explain cat and touch command with examples.
22. Explain how does Unix access files.
23. Write short note on working with vi editor.
24. Explain in detail about the different commands used for printing files.
25. Explain the role of the system administrator.
26. Write short note on signal.
27. Write short note on surrogating the super block and inode table.

(5 x 5 = 25)

PART D

Answer any 2 (12 marks each)

28. Explain in detail various duties that system administrator needs to perform.
29. List and explain 10 basic Unix commands.
30. Elaborate on the structure and layout of process in detail.
31. How is a file represented internally in Unix?

(12 x 2 = 24)