Register No.: ..... Name: .....

SAINTGITS COLLEGE OF ENGINEERING (AUTONOMOUS)

(AFFILIATED TO APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY, THIRUVANANTHAPURAM)

FOURTH SEMESTER INTEGRATED MCA DEGREE EXAMINATION (R,S), MAY 2024

(2020 SCHEME)

Course Code: **20IMCAT202**

Course Name: **Linux/Unix Fundamentals**

Max. Marks: **60** **Duration: 3 Hours**

PART A

(Answer all questions. Each question carries 3 marks)

1. Explain any three directory commands in Linux.
2. What are the different types of files available in Linux?
3. Differentiate local and global shell variables.
4. Explain case … esac construct.
5. Write a note on commands used in locating files in Linux.
6. Write a description on scheduling tasks in Linux.
7. How does email function under Linux?
8. What is the purpose of creating backups? What are the attributes which makes a strong backup?
9. What are xinetd and inetd?
10. How does RPM check signatures?

PART B

(Answer one full question from each module, each question carries 6 marks)

MODULE I

11. a) What are the different types of shells available in Linux? Explain. (4)
    b) Write a note on viewing and changing file access permissions. (2)

OR

12. Elaborate the file commands in Linux. (6)

MODULE II

13. Write a note on vi editor. Explain the commands used in the vi editor. (6)

OR

14. Write a script to find out biggest number from given three numbers. The numbers are to be inputted as command line argument. Print error, if sufficient arguments are not inputted. (6)

MODULE III

15. Explain Linux filters with examples. (6)

OR

16. a) Demonstrate the *top* command in Linux. (4)
    b) How can a Linux user examine a background process? (2)

MODULE IV

17. Describe the Linux commands that are used for user-to-user communication. (6)

OR

18. Discuss the *tar* command and its possible uses. (6)

MODULE V

19. Write notes on how to install, update, uninstall, query and verify with RPM. (6)

OR

20. Define daemons. Describe any four different categories of daemons. (6)

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