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Register No.:	 Name:	

SAINTGITS COLLEGE OF ENGINEERING (AUTONOMOUS)

(AFFILIATED TO APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY, THIRUVANANTHAPURAM)

FOURTH SEMESTER INTEGRATED M.C.A DEGREE EXAMINATION (S), SEPT 2022 (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 the different types of users in Linux.
- 2. Explain the Linux architecture with help a neat diagram.
- 3. Differentiate local and global shell variables.
- 4. How do you do the following activities using vi editor?
 - (i) Text replacement
 - (ii) Delete text
- 5. Write the Linux commands for the following with syntax.
 - (i) To switch a process between foreground and background.
 - (ii) To terminate an executing process
 - (iii) To connect two different processes together.
- 6. What are standard files?
- 7. Write short notes on the network commands: *ifquery*, *ifup*, *ifdown*
- 8. Which are the backup strategies used in Linux?
- 9. Explain any three modes of *RPM* command.
- 10. What is a daemon? Write any one example.

PART B

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

MODULE I

11. a) What are the different types of shell available in Linux? Explain. (4)

OR

b) Explain any two important features of Linux.

12. Explain file access permissions.

(6)

(2)

MODULE II

Write a shell program for a menu based calculator which performs *add*, *sub*, *mult*, *div* and *exit*. (6)

OR

14.	a)	Explain the conditional and iterating statements used in shell script.	(3)
	b)	Write a shell script to print the day of the week using <i>caseesac</i> statement.	(3)
		MODULE III	
15.	a)	Write a short note on the role of filters in Linux.	(2)
b)	b)	Explain the following commands.	
		(i) sed	
		(ii) grep	(4)
		(iii) sort	
		(iv) uniq	
		OR	
16.		Write short note on the following commands.	
		(i) Pipe and redirection	(4)
		(ii) Scheduling tasks.	(2)
		MODULE IV	
17.	a)	How does file transfer protocol work in Linux?	(2)
	b)	Write the use of the following commands	
		(i) mget	
		(ii) get	(4)
		(iii) put	
		(iv) mput	
		OR	
18.	a)	What are the different file compressing commands used in Linux?	(3)
	b)	Explain the various commands used in Linux for accessing e- mails.	(3)
		MODULE V	
19.	a)	Explain powers of 'root'.	(3)
	b)	What are the commands used to manage users and groups in Linux?	(3)
		OR	
20.	a)	How do you schedule a task using <i>cron</i> and <i>atd</i> commands?	(2)
	b)	What are the purposes of <i>Xinetd</i> and <i>Inetd</i> commands?	(4)
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