BIRLA INSTITUTE OF TECHNOLOGY, MESRA, RANCHI
(END SEMESTER EXAMINATION)

CLASS: BCA   SEMESTER : I
BRANCH: BCA   SESSION : MO/2024

SUBJECT: CN113 LINUX ADMINISTRATION

TIME: 3 Hours   FULL MARKS: 50

INSTRUCTIONS:
1. The question paper contains 5 questions each of 10 marks and total 50 marks.
2. Attempt all questions.
3. The missing data, if any, may be assumed suitably.
4. **Before attempting the question paper, be sure that you have got the correct question paper.**
5. Tables/Data hand book/Graph paper etc. to be supplied to the candidates in the examination hall.

			CO	BL
Q.1(a)	What is System Logging in Linux. Describe any 4 Log files in Linux with their usage.	[5]	1,2	1
Q.1(b)	Discuss file permissions available in linux. Write a short note on the chmod command with example.	[5]	2	2
Q.2(a)	Discuss LVM in Linux. What do you understand by (i) Logical Volume (ii) Physical Volume (iii) Volume Group.	[5]	4	1
Q.2(b)	Discuss commands to delete a volume group, logical volume in an LVM setup in Linux.	[5]	4	3
Q.3(a)	Describe the different types of users available in Linux. Discuss the different commands to manage users in Linux with examples.	[5]	5	1
Q.3(b)	Write a shell script to find if a number input by the user is prime or not.	[5]	5	3
Q.4(a)	What do you understand by the terms "DHCP", "DNS".	[5]	5	1
Q.4(b)	Discuss what you understand by SAMBA in terms of Linux. How would you install and configure SAMBA on your Linux system.	[5]	5	1,2
Q.5(a)	Write short note on "cron" jobs. Discuss how you would schedule a cron job on your Linux system with a suitable example.	[5]	5	2
Q.5(b)	Differentiate between "job" and "process" in Linux. Discuss the usage of "jobs" and "ps" command.	[5]	5	2

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