$(2\frac{1}{2} \text{ hours})$ [Total Marks: 75] N. B.: (1) **All** questions are **compulsory**. (2) Make <u>suitable assumptions</u> wherever necessary and <u>state the assumptions</u> made. (3) Answers to the same question must be written together. (4) Numbers to the **right** indicate **marks**. (5) Draw **neat labeled diagrams** wherever **necessary**. (6) Use of Non-programmable calculators is allowed. 10 1. Attempt any two of the following: Enumerate the features of Linux operating system. a. Explain the duty of the Linux system administrator in creating and maintain user b. accounts. Explain the grub.conf file. c. Explain the IBM's journaling file system and SGI's extended file system. d. 2. Attempt <u>any two</u> of the following: **10** Explain any ten important files in /etc/sysconfig directory. a. How is internal network configured? Explain. b. Enumerate the new features in NFS 4. c. d. How is Ethernet device added and removed using Network Configuration Tool? **3.** Attempt any two of the following: 10 Explain the smb.conf file. a. How can we connect to samba client? Explain. b. What is timeserver? Why is it required? What are the different types of time servers? c. How is it configured? Explain the squid configuration parameters. d. Attempt any two of the following: 4. **10** Discuss the following protocols available in Linux: http, sshd, ftpd. Explain the different standalone services in Linux. b. Explain the seven configuration statements used in named.ca file. c. Explain the different types of domain servers. d. 5. Attempt any two of the following: 10

What is mail queue? How is it managed?

How is Dovecot server configured and tested? Explain.

How can Email security be maintained? Explain.

What is a macro? What is the m4 macro processor? Explain.

a.

b.

c.

d.

6.	Attem	nt any	two	of the	following:
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- a. What are the changes in Apache 2.0 compared to Apache 1.x? Explain.
- b. How can multiple accounts be modified simultaneously? Explain with example. Or What is userfile? How is it different from standard password file?
- c. How can the output of rpmquery be formatted? Explain with example.
- d. How can we check the software versions? Exaplin the common version-numbering elements.

7. Attempt *any three* of the following:

15

- a. Explain the device file system and systemfs.
- b. How is security enhancement setup in NFSv4?
- c. How are NTP clients configured to use autokey encryption?
- d. What are zone statements? Explain the different values for the zone statement.
- e. How can anonymous ftp uploads be enabled in vsftpd? Explain.
- f. Explain the <Files> </Files> and <IfModule> </IfModule> blocks.



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