

28/11/2018

(2½ hours)

[Total Marks: 75]



N. B.: (1) **All** questions are **compulsory**.

(2) Make **suitable assumptions** wherever necessary and **state the assumptions** 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**.

1. Attempt **any two** of the following: 10

- Enumerate the features of Linux operating system.
- Explain the duty of the Linux system administrator in creating and maintain user accounts.
- Explain the grub.conf file.
- Explain the IBM's journaling file system and SGI's extended file system.

2. Attempt **any two** of the following: 10

- Explain any ten important files in /etc/sysconfig directory.
- How is internal network configured? Explain.
- Enumerate the new features in NFS 4.
- How is Ethernet device added and removed using Network Configuration Tool?

3. Attempt **any two** of the following: 10

- Explain the smb.conf file.
- How can we connect to samba client? Explain.
- What is timeserver? Why is it required? What are the different types of time servers? How is it configured?
- Explain the squid configuration parameters.

4. Attempt **any two** of the following: 10

- Discuss the following protocols available in Linux:
http, sshd, ftpd.
- Explain the different standalone services in Linux.
- Explain the seven configuration statements used in named.ca file.
- Explain the different types of domain servers.

5. Attempt **any two** of the following: 10

- What is mail queue? How is it managed?
- How is Dovecot server configured and tested? Explain.
- What is a macro? What is the m4 macro processor? Explain.
- How can Email security be maintained? Explain.

6. Attempt any two of the following:

10

- 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? Explain the common version-numbering elements.



7. Attempt any three of the following:

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- 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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