

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.

Attempt any two of the following:

1. List and explain any five duties of System Administrator. 10
- a. Explain the Linux booting process.
- b. What is the purpose of grub.conf file in Linux? Write the purpose of the following commands used in grub.conf file
- c. i. hiddenmenu ii. title iii. default iv. timeout
- d. What is RAID? Write and explain the different levels of RAID.

Attempt any two of the following:

2. Explain any five NFS export options. 10
- a. Write the use of /etc/sysconfig/init file.
- b. What is NFS? What are the features of NFS? Enumerate the additional features of NFS4.
- c. Explain the concept of supernetting with suitable example.
- d.

Attempt any two of the following:

3. Explain the process of connecting to samba client from Linux. 10
- a. List any five NTP utility programs and write the purpose of each.
- b. Write the purpose of home section of samba configuration file.
- c. Write the steps to configure squid.
- d.

Attempt any two of the following:

4. What is SSH? Explain with suitable example. 10
- a. List and explain different types of domain name servers.
- b. Explain the use of reverse zone files with suitable example.
- c. List various less secure services. Write the purpose of any four.
- d.

Attempt any two of the following:

5. List various protocols used to fetch the mail from mail server. 10
- a. Explain working of each in short.
- b. Write several key components that are essential for email to work properly.
- c. Write the purpose of the following parameters of vsftpd.conf file
 - i. anonymous_enable
 - ii. write_enable
 - iii. chown_username
 - iv. ftpd_banner
 - v. dirmessage_enable
- d.

- d. Explain how to disable anonymous FTP.

[TURN OVER]

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Linux

6. Attempt any two of the following: 10
- a. Write the purpose of any five Global Configuration Directives of httpd.conf.
 - b. Write an SSI page that will display the long listing of the directory /home/tyit.
 - c. What is root account? What is sudo? What are its features? How does a sudo session work?
 - d. Explain the use of rpmquery commands.
7. Attempt any three of the following: 15
- a. Explain the different runlevels in Linux.
 - b. What is DHCP? Explain its configuration file.
 - c. Explain smbclient and smbmount commands of samba.
 - d. Explain the concept of domain with suitable example.
 - e. Write the purpose of ftpusers and user_list files of ftp.
 - f. Explain useradd command with suitable example.