

- 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 labelled diagrams** wherever **necessary**.  
(6) Use of **Non-programmable** calculators is **allowed**.

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

**10**

- a. Explain the GRUB configuration file.
- b. List and explain the duties of system administrator.
- c. What is RAID? Explain different types of RAID.
- d. Write the purpose of the following directories of /(root)  
a. bin b. boot c. etc d. Home e. initrd

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

**10**

- a. Explain the concept of CIDR with suitable example.
- b. What is DHCP? How is it configured?
- c. Explain the concept of NFS with suitable example.
- d. Explain the use of cron files.

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

**10**

- a. Explain the smbclient and smbmount commands with suitable example.
- b. Explain the browseable, writable, create mode, directory mode and max connection parameters of [home] section of samba configuration file.
- c. Explain the concept of catching proxy server.
- d. Write the purpose of the following NTP utility programs  
a. ntpdate  
b. ntpdc  
c. ntp-keygen  
d. ntptime  
e. ntptrace

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

**10**

- a. What is the use of zone file? Explain with suitable example.
- b. Write the purpose of the following secure services.  
a. SSH  
b. scp  
c. sftp  
d. telnet  
e. rlogin
- c. List and explain different types of domain name servers.
- d. What is xinetd? Explain how it works?

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

**10**

- a. What is MDA? Explain how it works?
- b. Write the purpose of the following parameters of vsftpd.conf file
  - a. anonymous\_enable
  - b. write\_enable
  - c. chown\_username
  - d. ftpd\_banner
  - e. dirmessage\_enable
- c. Write the advantages of vsftpd.
- d. List and explain the key components that are essential for email to work. Explain in short.

**6. Attempt any two of the following**

**10**

- a. Explain the following values of AllowOverride directive of <Directory > block of apache server configuration file.
  - a. All
  - b. AuthConfig
  - c. FileInfo
  - d. Limit
  - e. None
- b. Write an SSI page that will display the long listing of the directory /home/tyit.
- c. Explain rpmquery command with options.
- d. Write the syntax of useradd command used to create new user account.

