

- 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

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- 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

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- 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

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- 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

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- 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

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- 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

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- 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.

