

(3 Hours)

[Total Marks: 100]

- 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

- Explain the features of Linux in detail.
- What are the steps to Configure Linux Firewall packages?
- Explain the files required to configure DNS server.
- Explain POP3 and IMAP4.

**2. Attempt any three of the following:**

- What are different Linux distributions? Explain any three in brief.
- Explain the duty of the Linux system administrator in monitoring and tuning performance.
- Explain bootstrapping in Linux.
- Compare GRUB and LILO boot loaders.
- Explain the Linux directory structure.
- Write a short note on ext2 and ext3 file system.

**3. Attempt any three of the following:**

15

- What is use of fstab? Explain contents of fstab.
- What is cron? How cron files are taking care of system task? Explain.
- What are the network files to be changed when we setup or move the system? Explain.
- Explain Classless Inter domain Routing (CIDR).
- What are the advantages and disadvantages of NFS? Explain.
- What is NFS? What are the steps to configure a NFS server on Linux system?

**4. Attempt any three of the following:**

15

- Explain the global section of smb.conf file.
- How optimize samba networking?
- Explain the concept of catching proxy server.
- Explain the squid configuration parameters.
- Write a short note on SSH.
- What is xinetd? How is xinetd server configured?

**5. Attempt any three of the following:**

15

- List and explain different types of domain name servers.
- Explain the two programs used to check the DNS configuration.
- Explain Mail User Agent, Mail transfer Agent and Mail Delivery Agent.
- What is Postfix Mail Server? List the steps for configuring postfix.
- How is vsftpd configured? Explain the important configuration files of vsftpd.
- Explain any five parameters of vsftpd.conf file.

[Turn Over]

6. Attempt any three of the following:

15

- a. Explain the features of Apache Web Server.
- b. Explain the <Files><Files>and<IfModule></IFModule>blocks.
- c. Write an SSI page that will display the long listing of the directory /home/tyit.
- d. List and explain the common mailman administrative tasks.
- e. Explain any five features of ht://Dig.
- f. What is RSS? List and explain the tags required for creating an RSS feed.

7. Attempt any three of the following:

15

- a. How are LDAP services optimized? Explain.
  - b. How are ftp services optimized? Explain.
  - c. What is sudo? What are its features?
  - d. Explain useradd command to create new user account with syntax and options.
  - e. Explain the quotacheck command with example.
  - f. Explain rpmquery command with options.
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