

(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. Answer any two of the following: 10
  - a. Explain GRUB.conf file in details
  - b. What are rc scripts? How rc scripts can be managed?
  - c. State the advantages of using hierarchical method for file system organization.
  - d. How to configure the secure system?
  
2. Answer any two of the following: 10
  - a. What are cron files? How cron files take care of system tasks? Explain.
  - b. What is DHCP? How is DHCP configured? Explain in details.
  - c. What is use of fstab? Explain contents of fstab.
  - d. State the number of subnets, subnet mask and number of hosts for Class B subnets with 2,3,4 and 5 bits.
  
3. Answer any two of the following: 10
  - a. Explain use of telnet, ftp, sync, finger, talk, rlogin services.
  - b. Compare inetd and xinetd services. Explain standalone services of xinetd.
  - c. What are the steps to configure Linux Firewall packages?
  - d. Distinguish between NFS and SAMBA Server.
  
4. Answer any two of the following: 10
  - a. State and explain E-Mail service and its components
  - b. Explain vsftpd configuration.
  - c. Explain different types of DNS servers.
  - d. Explain steps of configuring IMAP4.
  
5. Answer any two of the following: 10
  - a. Explain Apache web server with its features.
  - b. How can a Secure Server be created with SSL?
  - c. Explain configuration of CGI on Apache with script in detail.
  - d. Write a short note on Mailing Lists.
  
6. Answer any two of the following: 10
  - a. What are the advantages of shadow password over traditional password system?
  - b. Explain rpmquery command with options.
  - c. Explain how system administrator can create, modify and delete user accounts.
  - d. Explain the following used to set and enforce disk usage quotas
    - i. edquota
    - ii. quota
    - iii. quotaoff
    - iv. quotacheck
    - v. repquota

7. Answer any three of the following:
- How to install and configure applications in Linux?
  - Explain Memory File System and its uses.
  - Explain IP Address, Netmasking and subnetting in detail.
  - Write and explain files used by network configuration.
  - Which command is used to change the expiration policy for user's password?  
Explain with suitable example.
  - What is Postfix Mail Server? List the steps for configuring Postfix.