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 .											
` ,	•	Ū									
1.Atte	empt <u>any</u>	<u>two</u> (of the	follo	wing						
a.	Explain	the	duty	of	Linux	system	administrator	in	monitoring	and	tu

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- **a.** Explain the duty of Linux system administrator in monitoring and tuning performance.
- **b.** What are different Linux distributions? Explain any three in brief.
- **c.** Explain the stages of Linux boot process.
- **d.** Explain the Linux directory structure.

2.Attempt <u>any two</u> of the following

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- **a.** State and explain any five files that deal with system environmental settings.
- **b.** What are the network files to be changed when we setup or move the system? Explain each in brief.
- **c.** What is DHCP server? How is it configured? How is DHCP client configured?
- **d.** What is network file system? What are the features of NFS4? What are advantages and disadvantages of NFS?

3.Attempt <u>any two</u> of the following

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- **a.** How are samba users created? Explain.
- **b.** What is server message block protocol? Explain smbclient and smbmount commands.
- **c.** What are the tasks to be performed to setup Timeserver? Explain the steps to configure NTP Server and NTP client.
- **d.** What is caching proxy server? What are the steps in configuring squid? Explain A caching proxy

4. Attempt any two of the following

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- **a.** Write a short note on SSH.
- **b.** How is xinetd server configured? Explain.
- **c.** What is BIND? Explain the files required to configure BIND server.
- **d.** Explain zone files and reverse zone files.

5.Attempt any two of the following

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- a. State and explain the components required for email delivery process.
- b. Explain SMTP, POP3 and IMAP4 protocols.
- **c.** What is vsftpd? What are its features? Explain its configuration files.
- **d.** How can anonymous uploads and guest user accounts be enabled vsftpd? Explain.

- a. Explain the working and features of Apache web server.
- **b.** How is virtual server configured? Explain virtual server configuration directives.
- c. What are the advantages of shadow passwords over traditional password system?
- **d.** Explain the command to binary packages be built from source rpm packages with different valid build stages.

7.Attempt any three of the following

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- **a.** Compare GRUB and LILO boot loaders.
- **b.** An ISP is granted a block of addresses starting with 190.100.0.0/16 (65,536 addresses).
- **c.** Explain the different sections of smb.conf file.
- **d.** What is scp? Explain with examples.
- e. What are the features of Postfix Mail Server? Explain its primary configuration file.
- **f.** What is sudo? What are its features? Howdoes succession work after the creation of configuration file?

