

(2 ½ Hours)

[Total Marks: 75]

- N.B. 1) All questions are compulsory.
 2) Figures to the right indicate marks.
 3) Illustrations, in-depth answers and diagrams will be appreciated.
 4) Mixing of sub-questions is not allowed.

Q. 1 Attempt ANY FOUR from the following: (20M)

- (a) What is User Management tools? Explain command line tools.
 (b) Explain use of following files with its fields:
 a) /etc/passwd
 b) /etc/shadow
 c) /etc/group
 (c) Write a short note on the booting process in Linux.
 (d) Explain with example concept in subnetting
 (e) What are chains? Explain predefined chains in Netfilter.
 (f) How to manage software using rpm command. Explain in brief with its options.

Q. 2 Attempt ANY FOUR from the following: (20M)

- (a) Explain working and advantages of using Apache web server.
 (b) Write a short note on SMTP protocol.
 (c) List and explain the key components (MUA, MDA, MTA) that are essential for email to work. Explain in short
 (d) Differentiate between IMAP and POP3 protocol.
 (e) What is DNS Server? Explain how it works.
 (f) How user management helps to secure Linux server from security threats?

Q. 3 Attempt ANY FOUR from the following: (20M)

- (a) What is NFS? Explain any five RPC processes in NFS.
 (b) Explain different sections of samba configuration file.
 (c) Explain steps to configure NIS Server.
 (d) Differentiate between traditional network file server and distributed file system
 (e) State and explain steps of LAMP installation?
 (f) Explain various implementations of DFS.

Q. 4 Attempt ANY FIVE from the following: (15M)

- (a) Explain ext3 file system in Linux.
 (b) Explain how to disable anonymous FTP.
 (c) Explain configuration process of the DHCP Server.
 (d) Explain ARP protocol
 (e) What is SSH Client? Explain their vendors.
 (f) Explain the smbclient and smbmount commands with suitable example.