

(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) Explain use of following files with its fields:  
 a) /etc/passwd  
 b) /etc/shadow  
 c) /etc/group
- (b) Explain grub.conf file with its parameters
- (c) Explain with example concept in subnetting
- (d) Explain IPv4 Header with neat and labelled diagram.
- (e) How to manage software using rpm command. Explain in brief with its options.
- (f) What is User Management tools? Explain command line tools.

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

- (a) Differentiate between IMAP and POP3 protocol.
- (b) What is DNS Server? Explain how it works.
- (c) Write a short note on SMTP protocol.
- (d) Explain the working of LDAP protocol.
- (e) What is NFS? Discuss features of various NFS Version.
- (f) How user management helps to secure Linux server from security threats?

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

- (a) Explain configuration process of the DHCP Server.
- (b) Explain the smbclient and smbmount commands with suitable example.
- (c) Explain any five RPC processes in NFS.
- (d) Differentiate between traditional network file server and distributed file system
- (e) Explain various implementations of DFS.
- (f) Explain different sections of samba configuration file.

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

- (a) Explain ext3 file system in Linux.
- (b) Write a short note on Kerberos.
- (c) What is DHCP? Explain working of DHCP.
- (d) What is runlevel? What are different runlevels provided by Linux?
- (e) Explain how to disable anonymous FTP.
- (f) Write down the steps to configure NIS Server.

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