

(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) Diagrammatically explain various steps involved in creating a logical volume with commands.
- (b) Explain use of following files with its fields: /etc/passwd, /etc/shadow and /etc/group
- (c) With the help of a diagram, explain IPv4 Header.
- (d) Explain steps how to configure Netfilter.
- (e) Discuss in brief how to manage software using rpm command. with its options.
- (f) Explain grub.conf file with its parameters.

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

- (a) What is DNS Server? Explain its configuration steps,
- (b) Write a short note on Kerberos.
- (c) How to configure Apache web server explain its various modules.
- (d) What is DNS Server? Explain its working in details.
- (e) Write a short note on vsftpd.conf file.
- (f) Explain the working of LDAP protocol.

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

- (a) What is NFS? Discuss features of various NFS Version.
- (b) Explain different sections of samba configuration file
- (c) Explain various implementations of DFS.
- (d) What is LDAP? Explain uses and features of LDAP.
- (e) Write down the steps to configure NIS Server.
- (f) Define MySQL. Explain steps involved in installing and configuring mysql server and phpmyadmin.

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

- (a) What is runlevel? What are different runlevels provided by Linux?
- (b) Describe secure shell (SSH) client program of OpenSSH.
- (c) What is DHCP? Explain working of DHCP.
- (d) What is the importance of /etc/fstab in linux file system?
- (e) Differentiate between IMAP and POP3 protocol.
- (f) Explain any five RPC processes in NFS.
