(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 runlevel? Explain the different runlevels provided by Linux?
(b) Explain use of following files with its fields:
i) /etc/passwd ii) /etc/shadow
(c) Describe the predefined chains in the Netfilter implementation of iptables.
(d) What are the various steps involved in creating a logical volume explain with proper diagram.
(e) Show the working of rpm command with various options giving example.
(f) Explain the complete process of how TCP connection works?

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

(a) Explain the following protocols: 1) IMAP 2) POP3
(b) Write a note on Kerberos.
(c) What is Apache web server? Explain its various modules.
(d) Explain the security Implications for a SMTP Protocol? Describe the Email Components of SMTP.
(e) Describe SSHD Configuration File and the configuration options in it.
(f) Explain the following files used for Configuring DNS Clients:
1. /etc/resolv.conf 2. /etc/nsswitch.conf

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

(a) Define MySql. Explain steps involved in installing and configuring mysql server.
(b) Explain Samba daemons in details.
(c) Explain various implementations of DFS.
(d) What is the need of NIS? Describe the NIS daemons and processes.
(e) Explain configuration process of the DHCP Server.
(f) Describe the configuration of NFS server.

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

(a) Explain the following user management commands.
1. useradd 2. usermod 3. groupdel
(b) What are various types of DNS servers and its use.
(c) Give some of the uses of NFS.
(d) What is the importance of /etc/fstab in linux file system.
(e) How Secure Copy (scp) Program is useful?
(f) What is LDAP? Generate LDAP tree for an organization with subdivisions as Production department, Sales department, and Accounts department. Each having one distinguished contact.

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