(Time: 2 ½ Hours) [Total Marks: 75]

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 labeled diagrams** wherever **necessary**.
(6) Use of **Non-programmable** calculators is **allowed**.

1. Attempt *any THREE* of the following: **15**

a. List and explain the duties of Linux System Administrator.
b. Enumerate and describe user management commands.
c. What are permissions for files and directories? How to modify permissions.
d. Distinguish between RPM and YUM.
e. Describe commonly used distributions of Linux.
f. Explain the concept of Package Kit and write architecture of Package Kit.

2. Attempt *any THREE* of the following: **15**

a. Write different types of partitions. How will you create partitions with the help of fdisk.
b. List and explain different File Systems supported by linux.
c. What is chkconfig in Linux? Explain its purpose and usage with examples.
d. Explain the steps in configuring the Static Routes.
e. List the various run levels. Write the role of /etc/initab.
f. Write different features of SSH protocol.

3. Attempt *any THREE* of the following: **15**

a. Explain following Parameters
1.directory 2. listen-on 3. allow-query 4. recursion 5. forwarder
b. Describe parameters used in the vsftpd.conf configuration file.
c. Enumerate resource records are commonly used in zone files.
d. What is Apache and explain different features of Apache.
e. Write a short note on 1. POP3 and 2. IMAP.
f. Write the steps for configuring a DHCP Server in Linux.

4. Attempt *any THREE* of the following: **15**

a. Describe the basic configuration of rsyslog and its role in log management.
b. Write a short note on the top command and explain any four useful options.
c. Explain the working of the Cron daemon and its configuration.

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d. What are some common modules available in rsyslog and write functionalities do they provide?
e. What graphical tools can be used to manage and view log files in Linux?
f. Differentiate between Cron and Anacron.

5. Attempt *any THREE* of the following: **15**

a. What is Firewall? How to allow basic services through firewall.
b. What is NAT? How does it work with iptables?
c. What are tables, chains, and rules in iptables? Explain their relationship.
d. Write steps for Creating and Managing Self-Signed Certificate.
e. Differentiate between GRUB and LILO.
f. What is the syntax for a basic case structure? Write a shell script to input day number and print respective day name (Example 1-Monday).

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