(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 All (Each of 5Marks) (15)
(a) Multiple Choice Questions:
1. On _____ the domain's configuration files resides.
    a) Caching server
    b) Primary server
    c) Secondary server
    d) Root name server
2. A LDAP directory is a tree of data entries that is hierarchical in nature and is called the Directory Information Tree (DIT).
    a) True
    b) False
3. Which of the following is not a valid run-level?
    a) 3
    b) 0
    c) 8
    d) 1
4. DHCP stands for_____.
    a) Dynamic Host Creation Protocol
    b) Dynamic Host Configuration Protocol
    c) Defined Host Configuration Protocol
    d) Dedicated Host creation Protocol
5. Which file is read by init to get the default runlevel?
    a) /etc/profile
    b) /etc/init
    c) /etc/boot
    d) /etc/inittab

(b) Fill in the blanks : (www, mod_ftpd, jabber server, rules, org, directions, FTP server, IRC server, mod_ssl)
1. _____ is an open standard for instant messaging.
2. The vsftpd package is used for the _____ software.
3. A chain is simply a list of_____ that act on a packet flowing through the system.
4. _____ apache module provides strong cryptography for the Apache web server.
5. In website 'www.support.example.org.' _____ is the top level domain.

(c) Short Answers:
1. The /etc/passwd File.
2. Role of IMAP server.
3. What is IP Aliasing?
4. What is caching server?
5. Role of samba server.

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Q. 2 Attempt the following (Any THREE)(Each of 5Marks)   (15)
(a) What is the importance of /etc/fstab in linux file system?
(b) Explain the following variables supported in xinetd services:
    i)   socket_type
    ii)   user
    iii)   server
    iv)   wait
    v)   protocol
(c) Write steps to configure Netfilter.
(d) What is GNU public license? Explain advantages and disadvantages of open source software.
(e) What is kernel and where do you find kernel source code? Explain how to unpack the kernel source code.
(f) Explain what are targets? List any 5 targets used in preparing the kernel.

Q. 3 Attempt the following (Any THREE) (Each of 5Marks)   (15)
(a) Write a short note on FTP.
(b) Define Apache. Write its benefits.
(c) Discuss POP in regards with following points:
    i)   Reasons why POP was created?
    ii)   Idea behind POP.
(d) Explain OpenSSH.
(e) Write syntax along with example to define Primary and Secondary Zone in named.conf file of BIND.
(f) What is SMTP? Explain.

Q. 4 Attempt the following (Any THREE) (Each of 5Marks)   (15)
(a) Write any five components of NFS.
(b) Explain steps to configure NIS Server.
(c) State any five options of DHCP configuration file.
(d) Discuss phpMyAdmin.
(e) List and explain implementations of Distributed File Systems (DFS).
(f) What is LDAP? Explain.

Q. 5 Attempt the following (Any THREE) (Each of 5Marks)   (15)
(a) Write five predefined chains of IPtables.
(b) List and explain DNS record types.
(c) Explain any five common directives or options that are used in Apache's configuration file.
(d) Write a short note on PostgreSQL.
(e) Define the following terms:
    i)   Physical Volume
    ii)   Logical Volume
    iii)   Physical extent
    iv)   Logical Extent
    v)   Volume group

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