Paper / Subject Code: 82902 / Linux Server Adminstration

(2½ Hours)   [Total Marks: 75]

N.B   1) All questions are compulsory.
     2) Figure to the right indicates marks.
     3) Illustration, in-depth answers and diagrams will be appreciated.
     4) Mixing of sub-questions is not allowed.

Q1. Attempt All   (10M)
  (a) Multiple Choice Questions:
     i) Which Command is used to change the priority of a process?
         a)   crontab
         b)   tar
         c)   ln
         d)   nice
     ii) Which command is used to save work in the vi editor mode?
         a)   q
         b)   :!q
         c)   :q
         d)   :wq!
     iii) What is the maximum logical Partition per disk can be created?
         a)   7
         b)   9
         c)   14
         d)   11
     iv) VNC stands for?
         a) Virtual Network Clone
         b) Virtual Nested config
         c) Virtual Network Computing
         d) Virtual Network Control
     v) What is the name of samba server identified by the Windows Computer?
         a) Samba name
         b) net-name-bios
         c) net.bio.sambaname
         d) netbios name
     vi) Which of the following is commercial Distro?
         a) Fedora
         b) OpenSuSE
         c) Ubuntu
         d) RHEL
     viii) Is an automatic updater and package installer/remover for RPM systems?
         a) apt-get
         b) yum
         c) dpkg
         d) dpms

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viiii) Which of the following is a type of Firewall?
    a) Stateless Firewall
    b) Interface Firewall
    c) Default Gateway
    d) Packet Filtering Gateway

xi) Which DataBase is responsible for configuration of the database in Apache?
    a) DBMS
    b) MYSQL
    c) RDBMS
    d) DBA

x) Which of this is a part of DNS hierarchy?
    a) System
    b) IP Address
    c) Host
    d) Root

(b) Fill in the blanks: (5M)

(netstatus, Greate Unified Booter, scp, groupadd, ssh, FTP server, groupmod, Grand Unified Bootloader, netstat, rsa)

1) The -------------- is a collection of tools using a secure protocol for communication with remote Linux computer
2) The groups can be created with the_____command.
3) GRUB stands for_____
4) The vsftpd package is used for the_____software.
5) The_____program is used to display the status of all of the network connection on a host.

Q2. Attempt the following (Any THREE) (Each of 5 Marks) (15M)
  a) What is the importance of /etc/fstab in linux file system?
  b) Explain booting process in Linux.
  c) Explain ARP protocol.
  d) Explain what is cron program
  e) Explain the user management commands in linux
  f) Diagrammatically explain the steps involved in creating a logical volume

Q3. Attempt the following (Any THREE) (Each of 5 Marks) (15M)
  a) What is DNS Server? Explain how it works.
  b) Describe the Apache. Write its benefits.
  c) Explain OpenSSH.
  d) Write a short note on ftp.
  e) Write a short note on Kerberos.
  f) Describe SMTP Protocol.

Q4. Attempt the following (Any THREE) (Each of 5 Marks) (15M)
  a) Explain how to install and configure NFS server and client.

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b) What is DHCP server? How is it configured?
c) What is LDAP? Explain.
d) Write different Distributed File System (DFS) implementations.
e) Explain the showmount command with options and example.
f) What is LAMP? Write the steps to install LAMP applications

Q5. Attempt the following (Any five) (Each of 3 Marks)   (15M)
a) Discuss any one boot loader used in Linux in detail
b) Write five predefined chains of iptables.
c) Explain ext2 file System in detail.
d) Explain the format of following files.
   i) /etc/passwd
   ii) /etc/group
e) Explain uses of various Samba daemons?
f) Describe RPM.
g) Explain mount command?
h) What is use of runlevel?

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