

- 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

- viii) Which of the following is a type of Firewall?
- Stateless Firewall
 - Interface Firewall
 - Default Gateway
 - Packet Filtering Gateway
- xi) Which DataBase is responsible for configuration of the database in Apache?
- DBMS
 - MYSQL
 - RDBMS
 - DBA
- x) Which of this is a part of DNS hierarchy?
- System
 - IP Address
 - Host
 - Root

(b) Fill in the blanks:

(5M)

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

- The ----- is a collection of tools using a secure protocol for communication with remote Linux computer
- The groups can be created with the _____ command.
- GRUB stands for _____
- The vsftpd package is used for the _____ software.
- 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)

- What is the importance of /etc/fstab in linux file system?
- Explain booting process in Linux.
- Explain ARP protocol.
- Explain what is cron program
- Explain the user management commands in linux
- Diagrammatically explain the steps involved in creating a logical volume

Q3. Attempt the following (Any THREE) (Each of 5 Marks)

(15M)

- What is DNS Server? Explain how it works.
- Describe the Apache. Write its benefits.
- Explain OpenSSH.
- Write a short note on ftp.
- Write a short **note** on Kerberos.
- Describe SMTP Protocol.

Q4. Attempt the following (Any THREE) (Each of 5 Marks)

(15M)

- 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?
