

- 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?

- 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.

- 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?

\*\*\*\*\*