Mumbai University
Question Paper

Linux
Administration

B.Sc.IT: Semester – V
April – 2014

Time: 2 ½ Hours

Total Marks: 60

N.B.: (1) *All Question are Compulsory.*
   (2) *Make Suitable Assumptions Wherever Necessary And State The Assumptions Made.*
   (3) *Answer To The Same Question Must Be Written Together.*
   (4) *Number To The Right Indicates Marks.*
   (5) *Draw Neat Labeled Diagrams Wherever Necessary.*
   (6) *Use of Non – Programmable Calculator is allowed.*

Q.1   ATTEMPT ANY TWO QUESTIONS: (10 MARKS)

(A) Explain the features of Linux in detail with different Linux Distributions. **(5)**
(B) Compare GRUB and LILO Boot Loaders. **(5)**
(C) Explain the role of administration in creating and administrating users. **(5)**
(D) Explain the Linux Directory Structure. **(5)**

Q.2   ATTEMPT ANY TWO QUESTIONS: (10 MARKS)

(A) Which file need changes for setting up the IPv4 address? Explain. **(5)**
(B) What is DHCP? How is configured? **(5)**
(C) Enumerate the features of NFS4. **(5)**
(D) Explain the following files in /etc/config. **(5)**
   (i) *kernel*
   (ii) *kudzu*
   (iii) *network*
   (iv) *xinetd*
   (v) *selinux*

Q.3   ATTEMPT ANY TWO QUESTIONS: (10 MARKS)

(A) How is a Linux Machine connected to a Windows Machine? Explain. **(5)**
(B) What are the different sections on smb.conf file? Explain. **(5)**
(C) What is Timer Server? What is NTP? **(5)**
(D) Explain squid? How is it configured? Explain. **(5)**

Q.4   ATTEMPT ANY TWO QUESTIONS: (10 MARKS)

(A) Explain the files required to configure DNS Server. **(5)**
(B) Explain the two programs used to check the DNS configuration. **(5)**
(C) Explain rsh and finger Linux services. **(5)**
(D) How is xinetd server configured? **(5)**

Q.5   ATTEMPT ANY TWO QUESTIONS: (10 MARKS)

(A) Why aliases are required while configuring Send Mail? What are the changes that are required for creating an alias? **(5)**
(B) What is vsftpd? What are its features? **(5)**
(C) How is IMAP Server configured for handling mails? **(5)**
(D) What are the fields required for the configurations of vsftpd? Explain. **(5)**

[TURN OVER]

Q.6 **ATTEMPT ANY TWO QUESTIONS: (10 MARKS)**

(A) Explain the features of Apache Web Server. **(5)**

(B) Write the purpose of the following global configuration directives of httpd.conf **(5)**
- **(i)** *Keepalive*
- **(ii)** *KeepaliveTimeout*
- **(iii)** *MaxClients*
- **(iv)** *ServerLimit*
- **(v)** *StartServers*

(C) What are the advantages of Shadow Password? What are the fields in /etc/shadow? **(5)**

(D) Explain rpmquery command with options. **(5)**