UNIVERSITY OF MUMBAI
T.Y.B.Sc.(INFORMATION TECHNOLOGY) (Semester– V) (Practical) EXAMINATION
OCTOBER 2014
LINUX ADMINISTRATION

Max Marks: 50

Seat No:_____

1.	a. Implement a linux server system with an ip address 192.168.0.45 and update the hostname as ServerXX (XX stands for rollno) b. Implement a linux client system with an ip address 192.168.0.24 and update the hostname as ClientXX(XX stands for rollno) c. Restart the basic services essential for any network configurations. d. Add a normal user and login using any of the the terminal and resume back to the GNOME terminal e. Create a folder with your name and give full access rights to that folder in server f. Create a folder with another name and give only read, write access to that folder in client.	**20**
2.	With the above given addresses mount and unmount the folders that are created in Q.1 from server to the client**.**	**20**
3.	Viva	**5**
4.	Journal	**5**

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Max Marks: 50

Seat No: _____

1.	Configure the DHCP server by matching the following conditions: a. Subnet and Netmask should be 192.168.0.0 and 255.255.255.0 b. Gateway Should be 192.168.0.254 c. DNS Server Should be 192.168.0.254 d. Domain Name should be example.com e. Range from 192.168.0.10 to 192.168.0.50 f. Implement for both linux client and windows client	**20**
2.	Do the following changes in Grub file a. Write the path where the grub file is located. b. Change the timeout and title of the system	**10**
3.	Change normal user to root user using commands.	**10**
4.	Viva	**5**
5.	Journal	**5**

Max Marks: 50

Seat No: _____

1.	Install configure squid server with IP address 192.168.1.240 with different access control lists and block www.facebook.com for the client with IP address 192.168.1.220	**20**
2.	Configure a Linux server with IP address 192.168.0.243 and transfer files to a windows client 192.168.0.152.	**10**
3.	Change a normal user to root user through commands.	**10**
4.	Viva	**5**
5.	Journal	**5**

Max Marks: 50

Seat No: _____

1.	Configure a Samba on Linux server and transfer files to a windows client.	**20**
2.	As a normal user, using SUDO, create another user 'abc'.	**10**
3.	Write a C/C++ program to display the prime numbers in the range n1 and n2.	**10**
4.	Viva	**5**
5.	Journal	**5**

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Seat No: _____

1.	Configure a Linux server system to assign IP addresses dynamically to the client system.		**20**
2.	As a normal user, using SUDO, create another user 'lmn'.		**10**
3.	Write a C/C++ program to find greatest and smallest of n numbers and display the numbers in ascending order.		**10**
4.	Viva		**5**
5.	Journal		**5**

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Max Marks: 50

Seat No: _____

1.	Configure a DNS Server with a domain name of your choice.		**20**
2.	Write a TCP Client Server program to display the length of a string.		**20**
3.	Viva		**5**
4.	Journal		**5**

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Max Marks: 50

Seat No: _____

1.	Configure FTP on Linux Server. Transfer files to demonstrate the working of the same.		**20**
2.	Write a TCP Client Server program to display the average of n numbers.		**20**
3.	Viva		**5**
4.	Journal		**5**

Seat No: _____

1.	Configure Apache web server to support CGI. Develop the CGI page in PERL to demonstrate the same.	**20**
2.	As a normal user, using SUDO, create another user 'stu'.	**10**
3.	Write a 'C' program to display first n elements of Fibonacci series.	**10**
4.	Viva	**5**
5.	Journal	**5**

Seat No: _____

1.	Configure Apache web server to support PHP. Develop the PHP page to demonstrate the same.	**20**
2.	Write a TCP Client Server program to reverse a given number.	**20**
3.	Viva	**5**
4.	Journal	**5**

Seat No: _____

1.	Configure Apache web server to use self-signed certificate. First create a self-signed certificate.	**20**
2.	As a normal user, using SUDO, create another user 'pqr'.	**10**
3.	Write a 'C' program to display numbers divisible by 5 and 13 in the range n1 and n2.	**10**
4.	Viva	**5**
5.	Journal	**5**

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Max Marks: 50

Seat No: _____

1.	Install and configure Postfix mail server. Demonstrate the working of the same.	**20**
2.	Write a TCP Client Server program to concatenate two strings.	**20**
3.	Viva	**5**
4.	Journal	**5**

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Seat No: _____

1.	Create a firewall rule to reject all incoming ssh requests.	**20**
2.	Change a normal user to root user through commands.	**10**
3.	Write a C/C++ program to check if the number is palindrome or not.	**10**
4.	Viva	**5**
5.	Journal	**5**

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Max Marks: 50

Seat No: _____

1.	Setup NTP on Linux Server and let the clients synchronize time with this NTP server.	**20**
2.	As a normal user, using SUDO, create another user 'xyz'.	**10**
3.	Write a C/C++ program to check if the number is palindrome or not.	**10**
4.	Viva	**5**
5.	Journal	**5**