Unit 1

1. Explain any five basic file system management tasks
2. Explain any five commands to view the contents of text files
3. write short notes on piping and redirection
4. write short notes on working with an editor
5. explain cut copy and paste deleting and replacing in VR mode
6. explain the use of seb command by giving an example
7. write short notes on man command
8. what do you understand by system and process monitoring and Management. explain using commands
9. what is a cron file write steps to run a task from cron
10. what do you understand by mounting devices give example of mounting a USB flash drive
11. what are links write steps to create links
12. write short notes on creating backup
13. write short notes on RPM
14. what is a repository write steps to create a repository
15. short notes on searching installing and updating packages with Y U M
16. explain any five common commands y u m.
17. write steps how how to extract files from RPM packages

Unit 2

1. what is a partition what are types of partition write steps to create a partition
2. how many types of file systems are available on Linux write the steps creating a file system
3. list 5 useful 5 most useful properties list 5 most useful file system properties
4. what is a logical volume write steps to create logical volume volumes
5. what is a snapshot write steps to create a snapshot volume unmounted to see whether it contains the same files as the original volume
6. what is a swap space write steps to create a swap file
7. write short notes on working with services and run levels
8. write steps to write steps how to configure the network with network manager
9. what are the common network configuration file variables
10. write steps how to configure a network interface with IP explain some common tools that help in troubleshooting networking
11. explain the steps to enable and test the ssh server
12. what are the various ssh security settings write steps how to secure the ssh server and ssh client
13. explain how to configure key based essay ssh authentication
14. explain ssh port forwarding explain the various commands for user management
15. write short notes on managing passwords buy used by user
16. explain etc password configuration file
17. explain the various configuration files managing the user environment
18. explain steps how to create users related to configuration files
19. explain commands for group management write steps to create and manage groups
20. write short notes on using external authentication sources
21. what are pluggable authentication module explain how to configure PAM.
22. write short notes on managing permissions to users and Groups what are the basic permissions given to users

Unit 3

1. explain setting up of Firewall with system config firewall
2. explain how to configure port forwarding
3. what do you understand by change is masquerading
4. what is chain explain the various change used in the filter table
5. what are rules list some of the most common elements found in rules
6. write steps how to build a netfilter
7. Firewall write steps how to configure any
8. what is SSL write short note on SSL right write steps how to create a self signed certificate
9. write short note on creating and managing gpg keys
10. write steps how to encrypt and decrypt files
11. write steps how to setup NFS version 4 which are the commonly used export options in NFS V4
12. write steps how to create NFS share and mount NFS share
13. write steps how to setup a Samba file server. what are the various samba advanced authentication options
14. write steps how to access Samba shares explain most important parameters in FTP services

Unit 4

23. explain the DNS hierarchy along with DNS server types
24. explain the DNS lookup process
25. explain set setting up a primary name server
26. explain the most common resource records offered by the DNS server
27. write steps how to setup a primary DNS server
28. write short notes on DHCP server explain MTA, MDA and MUA.
29. short note on work working with mat m u t t
30. explain the various parameters to configure the mail server
31. write steps to configure dove Court for POP and IMAP.
32. explain creating a basic website in Apache web server explain some of the performance parameters in Apache web server
33. write short notes on working with virtual host write steps how to configure virtual host
34. write steps to setup a protected web server
35. write steps for setting up my SQL

Unit 5

1. what are the elements of a good Shell Script.
2. explain how to create a shell script.explain how to create execute a script
3. explain variables subshells and Sourcing giving examples
4. what is a substitution operator explain with an example changing variable content with pattern matching.
5. Write short notes on control structures
6. explain configuring booting with grub
7. write short note on changing boot options
8. explain how to use the grub command line
9. what are the common kernel management tasks
10. explain in brief how to reset the root password
11. What is high availability clustering.what are the high availability requirements
12. write steps how to create a bond device
13. explain how to configure a quorum disk
14. explain setting up the network installation server
15. explain configuring the tftp server for PHP boot PX Bhoot

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