(2½ Hours)	[Total Marks: 75]
N. B.: (1) All questions are compulsory.	
(2) Make suitable assumptions wherever necessary	and state the assumptions made
(3) Answers to the same question must be written to	
(4) Numbers to the right indicate marks.	The state of the s
(5) Draw neat labeled diagrams wherever necessar	у.
(6) Use of Non-programmable calculators is allowe	ed.
. Attempt any three of the following:	15
List and explain the duties of Linux System Administrat	tor.
Enumerate and describe group management commands.	
What are permissions for files and directories? How to n	
I. Distinguish between RPM and YUM.	
e. Write frequently used rpm commands. How to use RPM	I for installing software
Explain the concept of PackageKit and write architecture	
. Explain the concept of Tackagetxit and write architectua	TO OT I BUNBSURIE
2. Attempt any three of the following:	15
Write different types of partitions. How will you create	The state of the s
fdisk.	e partitions with the help of
b. List and explain different File Systems supported by line	ux.
Explain the parameters associated with ifcfg-eth0.	
f. Explain the steps in configuring the Static Routes.	
List the various run levels. Write the role of /etc/initab.	
Write different features of SSH protocol.	
3. Attempt any three of the following:	15
. Write the steps configuring a DHCP Server.	
Explain the option statement of named conf file with at	least five parameters
Enumerate resource records are commonly used in zone	files.
I. What is Apache and explain different features of Apache	
e. Describe different protocol associated with MDA.	
Write the steps to configure samba server.	
Attempt any three of the following:	15
write and explain example top command.	
b. Write a short note on 1.du 2.df	
e. Write commands can use to display detailed infor	mation about the system's
hardware?	acout the systems
d. What are some common modules available in rsyslog,	and write functionalities do
they provide ?	
e. What graphical tools can be used to manage and view lo	og files in Linux ?
Explain configuration file for cron jobs is the /etc/cronta	ab.

15

- 5. Attempt any three of the following:
- a. Explain the concept of INPUT, OUTPUT, and FORWARD chains.
- b. What is NAT, and how does it work with iptables
- c. What is SSL, and how does it enhance security for web communications?
- d. Write steps for Creating and Managing Self-Signed Certificate
- e. What is the syntax for a basic while loop in a shell script? Write a shell script to print table of 2 using while loop.
- Describe the steps to modify the GRUB configuration to change the default boot entry.

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