	(2 72 Hours)	Total Marks. 70
N.B.	1) All questions are compulsory.	
11.2.	2) Figures to the right indicate marks.	
	3) Illustrations, in-depth answers and diagrams will be appreciate	d.
	4) Mixing of sub-questions is not allowed.	
Q. 1	Attempt All (Each of 5Marks)	(15)
(a)	Multiple Choice Questions:	
	i) Which of the following is commercial Distro?	
	a) Fedora	
	b) OpenSuSE	
	c) Ubuntu	
	d) RHEL ii) is an automatic updater and package	
	installer/remover for RPM systems.	
	a) apt-get	
	b) yum	
	c) dpkg	
	d) dpms	7. D.
	iii) What is the last field in the below record of /etc/group i	;; file
	represents?	inc
	bin:x:1: root,bin,daemon	
	a) groups belonging to group 'bin'.	
	b) groups belonging to user 'bin'.	
	c) users belonging to group 'bin'.	
	d) Users created by user 'bin'.	
	iv) The option tells showmount to show the NFS se	rver's
.87	export list.	iver 5
Sec. 1	a) +r	
	b) =e	
20 A		
	d) h	
3,35	v) LDAP stands for	
	a) Lightweight Dictionary Access Protocol	
	b) Light Directory Access Protocol	
5000	c) Lightweight Directory Access Protocol	
A CA	d) Light Dictionary Access Protocol	
87.0V	ay Light Dichonary Access 1 Totocor	

(b)	Fill in the blanks: (4, Greate Unified Booter, 1, forward resolution, 2, ssh, reverse resolution, dhcp, Grand Unified Bootloader)		
	i) converts names into IP addresses.	K CO	
	ii) To set SetUID bit, we have to add value before the access	300	
	permission in chmod command	20,0	
	iii) GRUB stands for		
	iv) process ID of INIT process is	P. C. C.	
	v) Configuration file for is sshd_config.	200	
(c)	Short Answers:		
(=)	i) Define RPM.		
	ii) Write the syntax of mount command.	7.00 0.700	
	iii) What is the use of runlevel 0?		
	iv) Define Active FTP.		
	v) What is SNAT?		
Q. 2	Attempt the following (Any THREE) (Each of 5Marks)	(15)	
(a)	Explain the format of following files:	` ,	
、 /	i) /etc/passwd ii) /etc/shadow		
(b)	What is GNU public license? Explain advantages and disadvantages of		
` '	open source software.		
(c)	List and explain network security tools.		
(d)	Diagrammatically explain the steps involved in creating a logical volume.		
(e)	Define the following terms:		
	i) Physical Volume		
Δ.	ii) Logical Volume		
	iii) Volume Group		
21/20 10/0	iv) Physical Extents		
(f)	v) Logical Extents Write a short note on cron program.		
	write a short note on croin program.		
Q. 3	Attempt the following (Any THREE) (Each of 5Marks)	(15)	
(a)	Explain the following in regards with DNS:		
	i) Use of DNS		
	ii) Root domain		
	iii) Top-level domain iv) Second-level domain		
	iv) Second-level domain v) Third-level domain		
(b)	What is OpenSSH? List and explain any 3 OpenSSH programs.		
(c)	Define Apache. Explain its advantages.		
(d)	Write use of SMTP? List and explain the key components that are		
(e)	essential for email to work. Discuss FTP.		
2.10	N _O _N & & V _&V		

(f) Write any 5 DNS record types.

Q. 4 Attempt the following (Any THREE) (Each of 5Marks)

(15)

- (a) List and explain any 4 components of NFS.
- (b) Define MySql. Explain in short InnoDB and MyISAM database engines.
- (c) Discuss any 5 common dhcpd.conf options.
- (d) Explain the following servers required for running chat applications.
 - i) IRC server
 - ii) Jabbar Instant Messaging server.
- (e) Write steps to create Share in Samba.
- (f) What is LAMP? Write the steps to install LAMP applications.

Q. 5 Attempt the following (Any THREE) (Each of 5Marks)

(15)

- (a) What is ARP? Explain the steps of ARP.
- (b) How user management helps to secure Linux server from security threats?
- (c) Discuss the importance of NIS. Explain Daemons and processes associated with NIS.
- (d) Write a short note on INIT process.
- (e) What is NFS? Explain the versions of NFS.

