

BRAINWARE UNIVERSITY

Course- B.Sc.(HN)

Linux Server Administration (BHN302)

(Semester - 3)

Tin	ie alloti	ted: 3 Hours		Full Marks : 70					
[The	efigure	in the margin indicates full marks. their own words a		_	e their answers in				
		Gro	oup –A						
		(Multiple Choice	се Туре (Questions)	$10 \times 1 = 10$				
1. (i)	Choose the correct alternative from the following find / -iname * will								
	a.	List all files and directories recursively starting from /	b.	List a file named * in	/				
	c.	List all files in / directory	d.	List all files and direc directory	tories in /				
(ii)	Which command is used to extract a column from a text file?								
	a.	paste	b.	get					
	c.	cut	d.	tar					
(iii)	Which command creates an empty file, if file does not exist?								
	a.	cat	b.	touch					
	c.	ed	d.	read					
(iv)	How could you install the package ipchains-1.3.9-5.i386.rpm?								
	a.	rpm -qip ipchains	b.	rpm -Uvh ipchains					
	c.	rpm -ivh ipchains* .i386.rpm	d.	rpm -e ipchains-1.3.9-	-5.i386.rpm				
(v)	To create a swap partition by using fdisk, what must be the partition's system ID type?								
	a.	83	b.	82					
	c.	5	d.	4					
(vi)	What command is not used to list the files chap01, chap02 and chap04?								
	a.	ls chap*	b.	ls chap[124]					
	c.	ls -l chap0[124]	d.	ls chap0[124]					

(vii)	Which represents the user home directory?							
		a.	/	b.	•			
		c.		d.	~			
(viii)) If a	a file	e is removed in Unix using 'rm', then					
		a.	The file can be recovered by a normal user	b.	The file cannot be recov	ered by a user		
		c.	The file can be fully recovered provided the system is not rebooted	d.	The file will be moved to directory and can be reco administrator's intervent	e recovered only by		
(ix)	Wł	nat c	command is used to list contents of di	recto				
		a.	tar	b.	dir			
		c.	lp	d.	1s			
(x)	Wł	hich	command changes a file's group own	ner?				
		a.	cgrep	b.	chgrp			
		c.	change	d.	group			
			Group	– B				
			(Short Answer T	ype Ç	Questions)	$3 \times 5 = 15$		
Ansv 2.		eren	hree from the following tiate 'erase' and 'remove' command	in yu	m with suitable	[5]		
3.	Differentiate 'passwd' and 'chage' in password management. Describe							
4.	each Desc	[2+3] [5]						
5.	Describe booting process in Linux. [5 Differentiate program and process with suitable example. What is the							
6	utility of fork and wait system call?							
6.	Differentiate / and /root. What are the different types of file are supported by Linux?							
			Group	– C				
			(Long Answer Ty		uestions)	$3 \times 15 = 45$		
		.1	,	pe Q	(destroits)	3 X 13 – 13		
Ansv 7.	wer ar (a)	Dif	<i>hree</i> from the following ferentiate super block and inode blocuired).	k wit	h suitable diagram (if	[5]		
	(b)		scribe Linux directory structure with	suita	ble diagram.	[5] [10]		
8.	(a) What is the difference between "gzip" and "zip" utility? Describe with suitable example.							
	(b) Describe monolithic and micro kernel with suitable diagram.							

9. (a) Write down the functions of the following with example: i. userdel -r ls –ia ii. iii. grep iv. chmod chown [10] v. (b) Differentiate the use of *gpasswd* command for root user and group administrator with example. [5] (a) What is zombie and orphan process in Linux? 10. [4] (b) What is the way to schedule a job? Describe with a suitable example. [4] (c) What is the way to provide permission to files and directories in both relative and absolute manner? Describe with suitable example. [7] Write short notes on any three from the following: 11. $[3 \times 5 = 15]$ (a) Linux Shell Password management in Linux (b) (c) Utility of /etc/fstab Hard link vs Symbolic Link (d)