Full Marks: 70

b. Contains only scripts to be executed

during boot-up

d. None of the above



## **BRAINWARE UNIVERSITY**

## Course – M.Sc.(HN)

## **Linux System Administration (MHN201)**

(Semester - 2)

Time allotted: 3 Hours

a. Contains root file-system

drivers required to be preloaded during boot-up

required during boot-up

c. Contains root-file system and

[The	figure i	n the margin indicates full marks. Ca their own words as fa		dates are required to give their answers in practicable.]		
		Group	<b>–</b> А			
		(Multiple Choice	Тур	the Questions) $10 \times 1 = 10$		
1. (i)	Choose the correct alternative from the following Which of the following commands changes the group owner of a file?					
	a.	chgrp	b.	chown		
	c.	chage	d.	passwd		
(ii)		nd directories at the time of creation?	?	to change the default permissions for chown		
	c.	umask	d.	chgrp		
(iii)	Which	of the following represents the user	hon	ne directory?		
	a.	/	b.	~		
	c.		d.	\$		
(iv)	How many links are created when we create a directory?					
	a.	1	b.	2		
	c.	3	d.	4		
(v)	In Lin	ux, initrd is a file that				

(vi)	Which of the following commands is used to count number of characters in a file?  a. grep  b. wc								
	c.	count	d.	cut					
(vii)	Which time?	of the following commands is used	to d	isplay the file 'sample.txt' o	one page at a				
	a.	man sample.txt > more	b.	cat sample.txt < more					
	c.	cat sample.txt   more	d.	None of these					
(viii)	Which of the following commands is used to display all the files including hidden files in your current and its sub directories?								
	a.	ls - aR	b.	ls -a					
	c.	ls -R	d.	ls -l					
(ix)	Which	of the following commands is used	to e	xtract a column from a text	file?				
	a.	paste	b.	get					
	c.	cut	d.	tar					
(x)	(x) After creating a swap partition by using fdisk, what will be the partition's system ID?								
	a.	83	b.	82					
	c.	5	d.	4					
	Group – B								
		(Short Answer	Ту	pe Questions)	3 x 5 = 15				
Ansv 2.	•	ree from the following Linux booting process.			[5]				
3.	What is t	mbie" processes?	[5]						
4.	Differentiate between erase and remove command in yum with suitable example. [5								
5.	What is a	aquota.user and aquota.group? How	will	they be created?	[5]				
6.	Describe the utility of 'gpasswd' command for both root user and group administrator with proper example. [5]								

## Group-C

		(Long Answer Type Questions)	3 x 15 = 45				
Answer any <i>three</i> from the following							
7.	(a)	What is the utility of /home directory?	[2]				
	(b)	Differentiate between 'gzip' and 'zip' utility.	[5]				
	(c)	Differentiate between super block and inode block with suitable diagram.					
			[8]				
8.	(a)	Describe monolithic and micro kernel with proper diagram.	[8]				
	(b)	Describe each and every field in /etc/gshadow file.	[7]				
9.	(a)	Write down the functions of the following with example					
		i. usermod –L					
		ii. edquota -g					
		iii. chkconfig iv. grep					
		v. chown	[10]				
	(b)	How will you mount a file system permanently? Describe with a suitable example.					
			[5]				
10.	(a)	Describe the concept of LVM with suitable diagram.	[7]				
	(b)	Distinguish read, write and execute permission between file and	2 3				
		directory in Linux.	[3]				
	(c)	How can you change ownership and group-ownership of a file and directory? Explain with a suitable example.	[5]				
		directory? Explain with a suitable example.	[5]				
11.		Write short notes on any three of the following	$[3 \times 5]$				
	(a)	Linux Shell					
	(b)	Hard and soft link in Linux System.					
	(c)	Utility of /etc/passwd					
	(d) (e)	DORA process Utility of /etc/crontab					
	(6)	ounty of /etc/crontab					

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