

BRAINWARE UNIVERSITY

Term End Examination 2018 - 19

Programme - M. Sc. in Hardware & Networking

Course Name - Advanced Linux Administration and Scripting

Course Code - MHN303B

(Semester - 3)

Time	Full Marks: 70				
[The	figure ir	-	full marks. Candid wn words as far as	ates are required to give practicable.]	their answers in
			Group -A		
		(Mul	Itiple Choice Type	Question)	$10 \times 1 = 10$
1.	Choos	e the correct alternat	ive from the follow	ing	
(i)	Port n	o of NFS is			
	a.	TCP2054	b.	TCP2049	
	C.	TCP2041	d.	TCP2045	
(ii) /etc/sysconfig/network-scripts/ifcfg-ethX file contains 'BOOTPR refers				ontains 'BOOTPROTO=	enone', which
	a.	DHCP	b.	UDP	
	c.	TCP	d.	Static	
(iii) Mail exchanger record store in dns zone files, which is denoted by					
	a.	NS	b.	NS	
	c.	MX	d.	MX	
(iv)	NFS server maintains information regarding shared directory within file				
	a.	/etc/nfs	b.	/etc/rpcbind	
	C.	/etc/exports	d.	None of these	

(v)	refers the location of share directory in samba server						
	a.	baseurl= <directory path=""></directory>	b.	path= <directory path=""></directory>			
	c.	Both (a) and (b)	d.	None of these			
(vi)	File Sharing between Windows and Linux is done by						
	a.	FTP	b.	FTP			
	c.	NFS	d.	NFS			
(vii)	allow-transfer { IP address; }; IP address refers						
	a.	FTP	b.	samba			
	c.	NFS	d.	None of these			
(viii)	Check	syntax of httpd.conf file by u	sing				
	a.	httpd -t	b.	HTTPD -t			
	c.	httpd -T	d.	HTTPD -T			
(ix)	Which command is used to set SELINUX variable						
	a.	chkconfig	b.	setsebool			
	c.	getsebool	d.	service			
(x)	Comm	nand used to start any service	from runley	vel			
	a.	init	b.	chkconfig			
	c.	setsebool	d.	getsebool			
		G	roup – B				
		(Short Ansv	ver Type Q	uestions)	$3 \times 5 = 15$		
Ansv	ver any th	hree from the following					
2.	Differentiate between Active FTP and Passive FTP.						
3.	How squid server is used for packet filtering? Describe with proper example.						
4.	Differentiate between anonymous FTP and regular FTP with proper example.						
5.		'migrationtools' in LDAP ser	ver? Why v	we integrate NFS server with	_		
6.	LDAP? What is	'migrationtools' in LDAP ser	ver? Why i	ntegration of NFS server is	5		
	required?						

Group-C

		(Long Answer Type Questions)	$3 \times 15 = 45$
Ans	wer a	ny three from the following	
7.	(a)	Describe working principle of DNS with suitable diagram.	10
	(b)	Which information must be included in the DNS configuration file for transferring zone to slave DNS?	5
8.	(a)	What is the way to block 'www.yahoo.com' web page and 'proxy' keyword from SQUID Server?	5
	(b)	Solve the following problems: (i) All packets having destination port 80 will be redirected to 192.168.30.7 (ii) Reject outgoing ssh connections. (iii) Accept all packets except those from the IP address 192.168.1.10 (iv) Deny all packets coming from 10.10.10.0 network.	10
9.	(a)	Describe the following paths: (i) /etc/exports (ii) /etc/sysctl.conf (iii) /etc/named.conf (iv) /etc/hosts (v) /etc/vsftpd/ftpuser	10
	(b)	Differentiate between recursive and iterative resolution in DNS with example.	5
10.	(a)	For regular ftp which line must be required to edit in /etc/vsftpd/vsftpd.conf file?	2
	(b)	What is the way to 'on' or 'off' services from boot time? Describe it with a suitable example.	2
	(c)	Describe the term 'rw', 'ro' and 'sync' within /etc/exports file with suitable example.	6
	(d)	Differentiate between primary DNS server and secondary DNS server. What is the way to transfer a zone from master DNS?	5
11.	(a)	Describe working principle of DHCP server in Linux.	8
	(b)	What is the way to change hostname of a machine? Describe it with proper example.	4
	(c)	Describe the term 'rw' and 'sync' within /etc/exports file with suitable example.	3
