

BRAINWARE UNIVERSITY

Course - MSc. (HN)

Advanced Linux Administration and Scripting (MHN303B)

(Semester - 3)

Time allotted: 3 Hours Full Marks: 70

[The figure in the margin indicates full marks. Candidates are required to give their answers in their own words as far as practicable.]

Group -A

(Multiple Choice Type Questions)

10

					10 x 1 =	
1.	Choo	se the correct alternative from the follow	ving	j.		
(i)	Command used to start any service from runlevel:					
	a.	init	b.	chkconfig		
	c.	setsebool	d.	service		
(ii)	All zone related information stored in a DNS zone file which is belong to -					
	a.	/var	b.	/var/log		
	c.	/var/named	d.	/etc		
(iii)	/etc/resolv.conf file is used to store the IP address of					
	a.	DHCP Server	b.	DNS Server		
	c.	NFS Server	d.	HTTP Server		
(iv)	NFS server maintain information regarding shared directory within					
	a.	/etc/nfs	b.	/etc/rpcbind		
	c.	/etc/exports	d.	None of these		
(v)	Port n	o of NFS is				
	a.	TCP 2049	b.	TCP 2048		
	c.	TCP 2040	d.	UDP 2011		

(vi)	Check	syntax of httpd.conf file by	using				
	a.	httpd –t	b.	httpd –T			
	c.	HTTPD –t	d.	HTTPD –T			
(vii)	allow-						
	a.	Master DNS Server	b.	Slave DNS Server			
	c.	DHCP Server	d.	YUM Server			
(viii)	Canon						
	a.	NS	b.	A			
	c.	CNAME	d.	MX			
(ix)	"rndc	reload" is used to					
	a.	Transfer hostname	b.	Transfer zone file			
	c.	Transfer IP address	d.	Transfer FQDN			
(x) File Sharing between Windows and Linux is done by							
	a.	FTP	b.	NFS			
	c.	samba	d.	None of these			
			Group – B				
		(Short Ar	ıswer Type Qı				
	(Answer any <i>three</i> from the following)						
2	D.cc	ntiate Active FTP and Passive	EALD		$3 \times 5 = 15$		
2.		[5]					
3.		function of					
	/etc/reso	olv.conf file.			[2+3]		
4.	What is						
	server v	vith LDAP?			[2 + 3]		
5.	What is						
	an exam	nple.			[5]		
6.	What is						
	192.168.10.13 for accessing HTTP request using squid?						

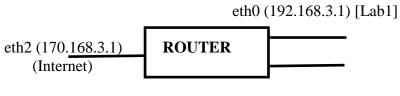
Group - C

(Long Answer Type Questions) (Answer any *three* from the following)

 $3 \times 15 = 45$

[5]

- 7. (a) Which configuration file is used to define a zone? Describe with proper example.
 - (b) Describe the working principle of NAT-PAT with suitable diagram. [9]
 - (c) Which file is required to activate kernel IP forward module? [1]
- 8. (a) What is the way to change hostname of a machine? Describe it with proper example. [5]
 - (b) Describe the following paths:
 - i. /etc/exports
 - ii. /etc/sysctl.conf
 - iii. /etc/named.conf
 - iv. /etc/hosts
 - v. /etc/sysconfig/network-scripts/ifcfg-lo [10]
- 9. (a) Describe each chain within Filter table. [3]
 - (b) Solve the following problem of firewall (iptables):



eth1 (192.168.2.1) [Lab2]

Lab1: 192.168.3.0/24 Lab2: 192.168.2.0/24

- i. What is the procedure for transferring data from each department to internet?
- ii. What is the procedure to transfer data between the two labs? [8]
- (c) What is the way to block "www.yahoo.com" webpage and "proxy" keyword from SQUID Server? [4]

Differentiate primary DNS server and secondary DNS Server. What 10. (a) is the procedure to transfer a zone from master DNS? [5] (b) Which service is required to be started for samba server? [2] (c) Describe working principle of DHCP server in Linux. [8] 11. [3 X 5] Write short notes on any three from the following: (a) iptables (b) **SQUID** Server (c) NFS Static vs dynamic table in DHCP Server (d)