



BRAINWARE UNIVERSITY

Course – BSc(HN)

RedHat System Administration I (BHN401)

(Semester – 4)

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 x 1 = 10

1. *Choose the correct alternative from the following*
 - (i) Which of the following command is used to mount NFS filesystem
 - a. nfsmount
 - b. knfsd
 - c. mount
 - d. All of these
 - (ii) Which of the following command is used to access an SMB share on a Linux system?
 - a. NFS
 - b. SMD
 - c. smbclient
 - d. smbserver
 - (iii) What port does DNS listen, by default?
 - a. 51
 - b. 52
 - c. 53
 - d. 54
 - (iv) What TCP/IP protocol is used for file transfer with minimal capability and minimal overhead?
 - a. TELNET
 - b. TFTP
 - c. FTP
 - d. RARP
 - (v) Which daemon is used for the apache server?
 - a. apached
 - b. httpd
 - c. html
 - d. shttp
 - (vi) “guest ok=yes” is used for
 - a. Anonymous FTP
 - b. Anonymous Samba
 - c. Regular FTP
 - d. None of these

- (vii) Which file is required to modify the hostname of a machine?
- /etc/hosts
 - /etc/sysconfig/networks
 - /etc/sysconfig/ifcfg-lo
 - None of these
- (viii) /etc/dhcp/dhcpd.conf file contains “BOOTPROTO=none”, which refers
- Static
 - DHCP
 - TCP
 - UDP
- (ix) “PTR” record is used in
- Forward lookup zone
 - Reverse lookup zone
 - Both (a) and (b)
 - None of these
- (x) Which command is used to start any service from runlevel?
- init
 - chkconfig
 - setsebool
 - service

Group – B

(Short Answer Type Questions)

3 x 5 = 15

Answer any *three* from the following

- Describe soft space and hard space limit for inode? What is the utility of grace period? Describe with suitable example. [2 + 3]
- What is the significance of ‘quotacheck –cugm’ and ‘chkconfig’ command? Describe with a suitable example. [5]
- Describe the function of /etc/resolv.conf file. What is the utility of ‘dig’ command? [3 + 2]
- Which demons are required to start samba server? What is the utility of ‘ifdown eth0’ and ‘ifup eth0’? [3 + 2]
- Describe the terms ‘NS’ and ‘A’. How serial number relates both master and slave DNS server? [2 + 3]

Group – C

(Long Answer Type Questions)

3 x 15 = 45

Answer any *three* from the following

7. (a) Differentiate between primary DNS server and secondary DNS server. What is the way to transfer a zone from master DNS? [5]
 (b) Describe working principle of DHCP server with proper diagram. [10]
8. (a) What is the way to mount a NFS file system permanently? Describe with an example. [5]
 (b) What information must be entered into vsftpd.conf file for regular FTP server? [5]
 (c) Differentiate between active FTP and passive FTP. [5]
9. (a) Describe the terms 'rw' and 'sync' into export file. [4]
 (b) What is the way to define a zone into named.conf file of master DNS? [5]
 (c) What is the utility of samba server? How can you share a directory using samba server? [6]
10. (a) Differentiate between FTP and NFS. [5]
 (b) Describe the following path
 I. /etc/exports
 II. /etc/named.conf
 III. /etc/sysconfig/network-scripts/ifcfg-lo
 IV. /etc/hosts
 V. /var/ftp/pub [10]
11. Write short notes on any *three* of the following [3 x 5]
 (a) Static vs dynamic table in DHCP server
 (b) NFS
 (c) /etc/fstab
 (d) Quota database files
 (e) ARP vs RARP