



BRAINWARE UNIVERSITY

Term End Examination 2018 - 19

Programme – B. Sc. (Honours) in Hardware & Networking

Course Name - Linux Server Administration

Course Code - BHN 302 / BHN302 (BL)

(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 Question)

10 x 1 = 10

1. *Choose the correct alternative from the following*
 - (i) Which of these commands will you use to show one page of output at a time?
 - a. sed
 - b. more
 - c. grep
 - d. pause
 - (ii) Which command is used to display the operating system name?
 - a. os
 - b. unix
 - c. uname
 - d. kernel
 - (iii) Which option of 'rmdir' command will remove all directories a, b, c if path is a/b/c?
 - a. -b
 - b. -o
 - c. -p
 - d. -t
 - (iv) How do you rename file 'new' to file 'old'?
 - a. mv new old
 - b. move new old
 - c. cp new old
 - d. del new old

- (v) Which octal expression represents permission -rwxr-xr-t?
a. 0777 b. 1755
c. 1754 d. 2754
- (vi) Which command creates an empty file, if file does not exist?
a. cat b. touch
c. mkdir d. vim
- (vii) Host specific configuration files are installed in
a. /etc/ directory b. /bin/ directory
c. /var directory d. /dev directory
- (viii) To create a Linux partition by using fdisk, what must be the partition's system ID type?
a. 82 b. 83
c. 5 d. 4
- (ix) Which is the only partition mounted in Single user mode?
a. boot b. usr
c. root d. tmp
- (x) pwd command displays
a. Content of password file b. User password
c. Present working directory d. Both (a) and (b)

Group – B

(Short Answer Type Questions)

3 x 5 = 15

Answer any *three* from the following

2. Differentiate between / and /root. Distinguish between erase and remove command in yum. 2 + 3
3. Differentiate between ‘passwd’ and ‘chage’ in password management with suitable example. 5
4. Differentiate between orphan process and zombie process. What is the utility of ‘fork’ and ‘wait’ system call? 3 + 2

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|----|--|-------|
| 5. | Differentiate between ‘user primary group’ and ‘user secondary group’ with suitable example. What is LILO? | 4 + 1 |
| 6. | Briefly discuss about useradd and userdel commands with options in Linux. | 5 |

Group – C

(Long Answer Type Questions)

3 x 15 = 45

Answer any *three* from the following

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|-----|--|-------|
| 7. | (a) Describe Linux directory structure with suitable diagram. | 10 |
| | (b) What is sticky bit? How can you apply sticky bit on a file or directory in both relative and absolute manner? | 5 |
| 8. | (a) Describe each and every field within /etc/fstab file with suitable example. | 5 |
| | (b) Describe the relationship between inode block and data block. | 10 |
| 9. | (a) Write down the function of the following with example:
(i) cut -d
(ii) chown
(iii) wc
(iv) tar -xzf
(v) rpm -qd | 10 |
| | (b) What is sticky bit? How can you apply sticky bit on a directory in both relative and absolute manner? | 5 |
| 10. | (a) Describe micro kernel with suitable diagram. | 5 |
| | (b) Write down the advantages of YUM over RPM? | 5 |
| | (c) What is defunct and daemon process in Linux? | 5 |
| 11. | Write short notes on any three of the following: | 3 x 5 |
| | (a) LVM | |
| | (b) Utility of /etc/passwd | |
| | (c) Inode | |
| | (d) YUM server | |