

BACHELOR OF COMPUTER APPLICATION
FIFTH SEMESTER
LINUX AND SHELL PROGRAMMING
BCA-501
[USE OMR SHEET FOR OBJECTIVE PART]

SET
B

Duration: 3 hrs.

Full Marks: 70

Time: 30 mins.

(Objective)

Marks: 20

Choose the correct answer from the following:

1×20=20

- The prompt of the root user is
 - @
 - #
 - %
 - \$
- The file permission 764 means:
Everyone can read, group can
 - execute only and the owner can read and write
 - Everyone can read and write, but owner alone can execute
 - owner can write, owner alone can execute
 - Everyone can read and write and execute
- Process information in the current shell can be obtained by using
 - kill
 - bg
 - fg
 - ps
- What command is used to sort the lines of data in a file in alphabetical order?
 - sort -r
 - st
 - sh
 - sort
- What command is used to display the top of the file?
 - grep
 - more
 - head
 - cat
- Which command in Linux is used for description of any command?
 - help
 - man
 - detail
 - short-detail
- What command is used to assign only execute permission to all the three categories of a file 'bca'?
 - chmod u+r,g+r,o-x bca
 - chmod ugo=x bca
 - chmod a-x bca
 - None of the above.
- Which command is used to clear the screen?
 - %clear
 - clear
 - clrscr
 - Either a or c
- Pipe symbol is represented by:
 - |
 - |
 - ^
 - \$

10. What command is used with vi editor to delete a single character?
a. x b. a
c. z d. y
11. What command can be used to get information about yourself?
a. which b. pwd
c. whoami d. None of the above
12. Which command is used to check Linux version?
a. uname -a b. uname -n
c. uname -s d. None of the above
13. How to run a process in the background?
a. & b. *
c. % d. !
14. Command used to count number of character in a file is
a. grep b. wc
c. cut d. count
15. Which utility would be easily used to replace all lowercase letters in a file with uppercase letters?
a. cut b. sed
c. tac d. tr
16. Who can change the password of any user ?
a. Everyone b. System Administrator
c. Supervisor d. End-user
17. Given the command
\$ chmod o-w datafile
a. sets write permission to everyone for datafile
b. sets write permission to others for datafile
c. clears write permission to everyone for datafile
d. clears write permission to others for datafile
18. mv command can be used for
a. Renaming a file b. Move the file to different directory
c. both a and b d. None of the above
19. Which of the following commands will allow the user to search contents of a file for a particular pattern
a. touch b. grep
c. find d. ls
20. The ____ command will display the contents of the current directory beginning with the letter 'a'
a. ls a* b. ls *a
c. la aa* d. None of the above

(Descriptive)

Time : 2 hrs. 30 mins.

Marks: 50

[Answer question no.1 & any four (4) from the rest]

- | | |
|--|--------|
| 1. Define different layers of Linux architecture. Explain five different types of Linux. | 5+5=10 |
| 2. a. Write a shell programming to find factorial of a number. | 6+4=10 |
| b. Explain chmod command with four examples. | |
| 3. a. How we create and delete a new user in Linux? Write the command to add user in a group. | 6+4=10 |
| b. Explain the procedure to temporary disable user's account | |
| 4. a. What is the difference between peer to peer and client-server model. | 5+5=10 |
| b. What are the functions of a system administrator? | |
| 5. Explain wc, ls, sort, mkdir and rmdir command with examples. | 10 |
| 6. a. What is process? Explain process life cycle with diagram. | 7+3=10 |
| b. Which command is used to list background processes? | |
| 7. How we describe Linux file system? Write commands for create, rename, copy and delete a file. | 6+4=10 |
| 8. Write short notes (Any two) | 5+5=10 |
| a. GNOME and KDE | |
| b. vi editor | |
| c. TCP/IP network | |

== *** ==