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

SET A

Duration: 3 hrs.

Full Marks: 70

(**Objective**)

Time: 30 mins.

Marks: 20

Choose the correct answer from the following:

1 ×20=20

1. 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

2. Which of the following represents read, write and execute permissions for owner and read and execute for all others.
   a. 755
   b. 022
   c. 733
   d. 557

3. 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

4. Which command is used to display the operating system name?
   a. os
   b. unix
   c. uname
   d. kernal

5. Drivers reside in which environment?
   a. Kernel space
   b. Device space
   c. Application space
   d. User space

6. The first_____ ways represents the root directory.
   a. -minus
   b. / slash
   c. * asterisks
   d. + plus

7. Which of the following is called as the redirection operator for output?
   a. =
   b. <<
   c. <
   d. >

8. The prompt of the root user is:
   a. @
   b. #
   c. %
   d. $

9. Which command would be used to produce the following permissions?
   -rw-rw-r— myfile
   a. chown myfile
   b. chmod 661 myfile
   c. chmod 331 myfile
   d. chmod 664 myfile

10. Which of the following can be used to suspend a process running in the foreground?
    a. &   b. fg
    c. bg   d. Ctrl+Z

11. Which command and options are used to delete a user's account and home directory?
    a. userdel -r   b. usermod -f
    c. passwd -e   d. usermod -e

12. Which command copies the contents of the source file after creating the destination file?
    a. mv   b. cat
    c. cp   d. rm

13. Which key allows you to view the last command entered?
    a. down arrow   b. up arrow
    c. right arrow   d. left arrow

14. What command can be used to locate specific text within a file?
    a. grep   b. locate
    c. find   d. where

15. Which command is not used to view the contents of a file?
    a. cat   b. more
    c. less   d. expand

16. 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

17. Double dot (..) with cd refers to:
    a. Created directory   b. Parent directory
    c. Current directory   d. Change directory

18. Which shell is the default shell used on Linux systems?
    a. csh   b. rsh
    c. tcsh   d. bash

19. A directory under a directory is called as:
    a. Root directory   b. Parent directory
    c. Sub directory   d. None of the above

20. Which command is used to rename the ourgroup file to mygroup ?
    a. rn ourgroup mygroup   b. rn mygroup ourgroup
    c. mv ourgroup mygroup   d. mv mygroup ourgroup

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(Descriptive)

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

1. Explain 3 different flavors of Linux available in the market. Describe   6+4=10
    architecture of Linux.

2. a) Write chmod command for the following situation using both   4+6=10
        symbol and number –
        For owner add read, write and execute command and remove
        execute command for others and group assign only execute command.
    b) Define ls and cat command with examples.

3. a) Write a shell program to find the factorial of a number.   5+5=10
    b) Write a shell program which will add two numbers entered by user.

4. Explain man, cd, sort, rmdir and mkdir command with examples.   10

5. a) What is process? Explain process life cycle with diagram.   4+6=10
    b) Define cut, chmod and awk commands.

6. How we describe Linux file system? Write commands for create,   6+4=10
    rename, copy and delete a file.

7. a) How to create and delete a new user in Linux?   5+5=10
    b) What are the functions of a system administrator?

8. Write short notes: (*any two*)   5+5=10
    a) Kernal
    b) KDE
    c) Cal and date command

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