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# BRAINWARE UNIVERSITY

Term End Examination 2021 - 22

Programme – Bachelor of Technology in Computer Science & Engineering

Course Name – Linux Administration

Course Code - BCSE602

( Semester VI )

Time allotted : 1 Hrs.25 Min.

Full Marks : 70

[The figure in the margin indicates full marks.]

## Group-A

(Multiple Choice Type Question)

1 x 70=70

Choose the correct alternative from the following :

(1) What is UNIX?

- |                         |                     |
|-------------------------|---------------------|
| a) an operating system  | b) a text editor    |
| c) programming language | d) software program |

(2) Name the windowing system of UNIX known as-

- |                    |          |
|--------------------|----------|
| a) X Window system | b) LINUX |
| c) Red Hat         | d) DOS   |

(3) Commands of UNIX operating system classified into how many categories?

- |      |      |
|------|------|
| a) 1 | b) 2 |
| c) 3 | d) 0 |

(4) The function of echo command is

- |                                   |  |
|-----------------------------------|--|
| a) displaying errors              | b) displaying operating system details |
| c) displaying diagnostic messages | d) displaying date and time            |

(5) Which command is used as an alternative to echo command?

- |       |           |
|-------|-----------|
| a) Ls | b) printf |
| c) wc | d) ps     |

(6) script command is used for \_\_\_\_\_

- |                        |                          |
|------------------------|--------------------------|
| a) recording history   | b) recording our session |
| c) recording passwords | d) recording scripts     |

(7) Which of the following is a valid option with script command?

- |       |       |
|-------|-------|
| a) -b | b) -a |
| c) -d | d) -x |

(8) Which of the following is not an internal command used by mailx?

- |      |      |
|------|------|
| a) N | b) d |
| c) q | d) a |

(9) Ctrl-S stops scrolling of screen output and \_\_\_\_\_

- |                   |                       |
|-------------------|-----------------------|
| a) locks terminal | b) delete a character |
|-------------------|-----------------------|

- c) locks keyboard  
d) delete a line
- (10) Which command is used for killing a line?  
a) ctrl-k  
b) del  
c) esc  
d) ctrl-u
- (11) When we log in, the UNIX places us in a directory, called \_\_\_\_\_ directory  
a) home  
b) main  
c) parent  
d) current
- (12) Which command is used for changing the current directory?  
a) Cd  
b) cp  
c) pwd  
d) rm
- (13) Which command is used for removing an empty directory?  
a) Mkdir  
b) rmdir  
c) del  
d) remove
- (14) If rmdir dir001 fails, what could be the reason(s)?  
a) dir001 doesn't exist  
b) dir001 is not empty  
c) permissions of dir001 doesn't allow to remove it  
d) dir001 doesn't exist, dir001 is not empty and permissions of dir001 doesn't allow to remove it
- (15) \$ cd .. is used to move \_\_\_ level up in the file hierarchy.  
a) Two  
b) one  
c) three  
d) zero
- (16) Which option is used with ls command for long listing of files with seven attributes?  
a) -a  
b) -l  
c) -x  
d) -i
- (17) What is the collating sequence of ls command for listing files?  
a) Numerals > Uppercase > Lowercase  
b) Numerals > Lowercase > Uppercase  
c) Lowercase > Uppercase > Numerals  
d) Uppercase > Numerals > Lowercase
- (18) What does the -S option do in ls command?  
a) sorts according to modification time  
b) sorts according to last access time  
c) sorts according to file size  
d) sorts according to inode number
- (19) To create empty files, which command is used?  
a) Cp  
b) cat  
c) Touch  
d) Create
- (20) Which is not an option of cp command?  
a) -z  
b) -i  
c) -r  
d) -u
- (21) -n option is used with cp command for what purpose?  
a) existing file should not be overwritten  
b) to update file  
c) interactive copying  
d) recursive copying
- (22) -v option is used with cp command for displaying \_\_\_\_\_  
a) Errors  
b) informative messages  
c) diagnostic messages  
d) file contents
- (23) Which of the following command is needed to delete all files in a directory?  
a) rmdir \*  
b) mv \*  
c) rm \*  
d) del \*
- (24) Which command is used for removing file named -file.txt?  
a) rm -file.txt  
b) rm file.txt  
c) rm - file.txt  
d) rm -f file.txt

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- (25) What if the destination file specified in mv command already exists?
- a) it will be deleted
  - b) it will not be affected
  - c) it will be overwritten
  - d) an error will be produced
- (26) What is the default symbol for command prompt in Bourne shell?
- a) \$
  - b) %
  - c) #
  - d) @
- (27) In Shell's interpretive cycle, the shell first scans for \_\_\_\_\_ in the entered command.
- a) Characters
  - b) priority
  - c) meta-characters
  - d) wildcards
- (28) Which of the following are used for searching a pattern in vi?
- a) /
  - b) ?
  - c) %
  - d) / and ?
- (29) Which of the following is used for substitution command?
- a) N
  - b) M
  - c) S
  - d) D
- (30) To replace 'professor' with 'director' throughout the whole file, which of the following commands can be used?
- a) 1,\$s/professor/director/g
  - b) %s/professor/director/g
  - c) 1,\$s/professor/director
  - d) 1,\$s/professor/director/g and %s/professor/director/g
- (31) For searching "director" in emp.lst, which one of the following commands will be used?
- a) grep "director"
  - b) grep -v "director" emp.lst
  - c) grep -director emp.lst
  - d) grep "director" emp.lst
- (32) If special characters in a pattern found, then to enclose them in
- a) single quotes
  - b) double quotes
  - c) without any quotes
  - d) all quotes
- (33) Which of the following options of rmdir command will remove all directories a, b, c if path is a/b/c
- a) -b
  - b) -o
  - c) -p
  - d) -t
- (34) In which language UNIX is written?
- a) Java
  - b) Python
  - c) C
  - d) C++
- (35) Which of the following is not a part of all the versions of UNIX?
- a) Kernel and Shell
  - b) Commands and utilities
  - c) Graphical user interface
  - d) System Calls
- (36) What is a superuser?
- a) system manager
  - b) normal user
  - c) administrator
  - d) a user with special rights
- (37) Unix was created by
- a) Ken Thompson
  - b) Alan Turing
  - c) Alfred
  - d) Stoustrap
- (38) In how many categories, commands of UNIX operating system classified?
- a) 1
  - b) 2
  - c) 3
  - d) 0
- (39) echo command is used for \_\_\_\_\_
- a) displaying errors
  - b) displaying operating system details



c) displaying diagnostic messages

d) displaying date and time

(40) What are escape sequences?

a) special characters beginning with a \ (backslash)

b) special commands

c) special utilities

d) a sequence of characters

(41) Which option counts the number of lines containing the pattern?

a) -c

b) -i

c) -e

d) -n

(42) Which option is used when we need to match multiple patterns in a single invocation of grep command?

a) -a

b) -e

c) -n

d) -i

(43) POSIX identifies regular expressions as belonging to \_\_\_ categories.

a) 3

b) 2

c) 4

d) 5

(44) To increase the response time and throughput, the kernel minimizes the frequency of disk access by keeping a pool of internal data buffer called

a) Pooling

b) Spooling

c) Swapping

d) Buffer Cache

(45) 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

(46) If a file is removed in Unix using 'rm' then

a) The file can be recovered by a normal user

b) The file cannot be recovered by a user

c) The file can be fully recovered provided the system is not rebooted

d) The file will be moved to /lost+found directory and can be recovered only by administrator's intervention

(47) What command is used to copy files and directories?

a) Copy

b) cp

c) rm

d) cpy

(48) When mv f1 f2 is executed which file's inode is freed?

a) f1

b) f2

c) new inode will be used

d) no inode is freed

(49) How many links are created when we create a directory file?

a) 1

b) 2

c) 3

d) 4

(50) There are two hard links to the "file1" say h1 and h2 and a softlink sl. What happens if we delete the "file1"?

a) We will still be able to access the file with h1 and h2 but not with sl

b) We will not be able to access the file with h1 and h2 but with sl

c) We will be able to access the file with any of h1, h2 and sl

d) None of the above mentioned

(51) Which of the following expression is a correct wildcard pattern if we want an expression in which the last character is not numeric?

a) \*![0]

b) \*[0-9]

c) [0-9]

d) \*![0-9]

(52) To change the login shell in some system (like Linux) we can use which command.

a) Chshell

b) chshl

c) chsh

d) ch

- (53) Which of the following symbols are used for searching a pattern in vi?
- a) /
  - b) ?
  - c) %
  - d) / and ?
- (54) Which searches for a first instance of a pattern in forwarding direction
- a) /
  - b) %
  - c) \*
  - d) ?
- (55) Which searches for a first instance of a pattern in the backward direction.
- a) /
  - b) \*
  - c) ?
  - d) %
- (56) Which of the following symbol is used for substitution command?
- a) N
  - b) n
  - c) S
  - d) s
- (57) Which of the following is a correct syntax for performing substitution on a file?
- a) :address/source\_pattern/target\_pattern/flag
  - b) :address/target\_pattern source\_pattern/flag
  - c) :address/flag
  - d) :address
- (58) Which of the following flag will be used for interactive substitution?
- a) G
  - b) g
  - c) Gc
  - d) cG
- (59) Which one of the following is the correct syntax for grep command?
- a) grep options filename(s)
  - b) grep options pattern
  - c) grep pattern filename
  - d) grep options pattern filename(s)
- (60) If there are special characters in a pattern, then we've to enclose them in
- a) single quotes
  - b) double quotes
  - c) without any quotes
  - d) all quotes
- (61) Which option is used with grep command for deleting lines?
- a) -v
  - b) -e
  - c) -a
  - d) -i
- (62) Which option is used with the cat command for displaying file with line numbers?
- a) -n
  - b) -v
  - c) -a
  - d) -x
- (63) What does cat file01 file01 file01 display?
- a) Error
  - b) Blank Terminal
  - c) contents of file01 three times successively
  - d) contents of file01 single time
- (64) Which option is used with touch command which forces the command not to create file, if it does not exists.
- a) -h
  - b) -c
  - c) -t
  - d) -f
- (65) What is the function of cp command in UNIX?
- a) list all the available files in the
  - b) delete a given file
  - c) cp is a command used for copying files and directories
  - d) change the directory
- (66) What happens if the destination file specified in cp command does not exist?
- a) file will not be copied
  - b) an error will be produced
  - c) destination file will be automatically created
  - d) none of the mentioned
- (67) Which of the following is not an option of cp command?
- a) -z
  - b) -i
  - c) -r
  - d) -u

(68) How can we copy an entire directory under another directory?

a) using -R option

b) using -a option

c) using -u option

d) none of the mentioned

(69) What does -i option do?

a) interactive copying

b) recursively copying

c) updating

d) none of the mentioned

(70) This set of Unix focuses on "Deleting and Renaming files: rm and mv Command".

a) rmdir

b) rm

c) del

d) mv