



(1) The first set of the three permissions (rw) pertains to the owner of the file, indicating that the owner has

- (A) Executable permission only
- (B) Write and executable permissions
- (C) Both read and executable permissions
- (D) Both read and write permissions**

(2) Which of the following commands is used to obtain a list of all files by modification time?

- (A) ls -l
- (B) ls -t**
- (C) ls -i
- (D) ls -R

(3) Which of the following commands is used to obtain a list of all files by modification time?

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(4) Which of the following commands is used to display your working directory?

- (A) dir
- (B) prompt \$p\$g
- (C) pwd**
- (D) path

(5) Which of the following commands is used to rename a file?

- (A) rename
- (B) remove
- (C) mv**
- (D) ren

(6) Which command is used to save the standard output in a file, as well as display it on the terminal?

- (A) more
- (B) cat**
- (C) grep
- (D) tee

(7) Which command is used to copy all files having the string chap and any two characters after that to the progs directory?

- (A) cp chap?? progs
- (B) cp chap* progs
- (C) cp chap[12] /progs/*.*
- (D) cp chap?? /progs/*

8) Which symbol will be used with grep command to match the pattern pat at the end of a line?

- (A) ^pat
- (B) \$pat
- (C) pat\$
- (D) pat^

9) The Octal number to be given along with chmod command to make a file readable, writable and executable to the owner, readable and executable to group and others is:

- (A) 000
- (B) 755
- (C) 744
- (D) 555

10) Which of the following commands is used to get directory one level up?

- (A) cd
- (B) cd ..
- (C) cd/
- (D) chdir

11) The cat command is used to

- (A) Capture a file
- (B) Display a file
- (C) Print a file
- (D) Copy a file

12) Which command is used to count just the number of characters in a file?

- (A) wc - 1
- (B) wc -c
- (C) wc -w
- (D) wc -r



13) Which command is used to display the end of the file?

- (A) head - r
- (B) tail**
- (C) eof
- (D) bof

14) The command used to remove the directory is;

- (A) rmdir**
- (B) rd
- (C) remove
- (D) rdir

15) In Vi Which of the following keys is used to replace a single character with new text?

- (A) S
- (B) s**
- (C) r
- (D) C

16) Which of the following commands is used to copy a file wb from the programs directory into a file called wbx in the misc directory?

- (A) copy programs/wb misc/wbx
- (B) cp programs/wb misc/wbx**
- (C) tar programs/wb misc/wbx
- (D) copy a:programs/wb b:misc/wbx

17) Which of the following commands is used to have a two-way communication with any person who is currently logged in?

- (A) mail
- (B) mesg
- (C) write**
- (D) grep

18) Which of the following commands is used to display the filenames in multiple columns with indication of directories and executable file?

- (A) ls -F -x**
- (B) ls - l
- (C) ls ~ x
- (D) lp

19) Which operator will be used with chmod command to assign absolute permission?

- (A) +
- (B) -
- (C) =**
- (D) %

20) Which of the following commands is used to update access and modification times of a file?

- (A) grep
- (B) wc
- (C) touch**
- (D) cat

21) Which command is used to delete all files in the current directory as well as all files and sub-directories in its subdirectories?

- (A) rm *
- (B) rm -r ***
- (C) rm all
- (D) rm *.*

22) Which command is used with file named 'note' to remove the executable permission from the user and assign read permission to the group and others?

- (A) chmod u-x, go+r note**
- (B) chmod go+r, u+x note
- (C) chmod g-x, uo+r note
- (D) chmod go+x, u-x note

23) Which option is used with rm command to make the command prompt the user with each filename and a ?, before acting on it

- (A) -r
- (B) -x
- (C) -i**
- (D) -1

24) The commonly used UNIX commands like date, ls, cat, etc. are stored in

- (A) /dev directory
- (B) /bin and /usr/bin directories**
- (C) /tmp directory
- (D) /unix directory

- 25) The File that contains a set of instructions which are performed when a user logs in, is
(A) .exrc
(B) .profile
(C) .autoexec
(D) autoexec.bat
- 26) The seventh field of /etc/password is
(A) password
(B) login
(C) shell
(D) home
- 27) Which of the following commands can be used to get information about yourself?
(A) who am i
(B) i /4
(C) pwd
(D) which
- 28) Which of the following keys is used to delete the character beneath the cursor in vi?
(A) x
(B) X
(C) dd
(D) D
- 29) The cp command uses:
(A) Standard input file
(B) Standard output file
(C) Both input and output file
(D) Neither standard input nor standard output file
- 30) Which command is used to locate all the .profile files in the system?
(A) ls profile
(B) find / -name profile -print
(C) cd /.profile
(D) l -u .profile

- 31) Which command is used to display all the lines with the string 'sales' from the file empl.lst?
- (A) cut sales empl.lst
 - (B) /sales > empl.lst
 - (C) grep sales empl.lst**
 - (D) cat | /sales > empl.ls
- 32) Which symbol will be used with grep command to match the pattern pat at the beginning of a line?
- (A) ^pat**
 - (B) \$pat
 - (C) pat\$
 - (D) pat^
- 33) Which of the following files contains information related to password aging?
- (A) Shadow
 - (B) Password
 - (C) Profile**
 - (D) All the three
- 34) Which option is used with the chmod command recursively to all files and sub-directories in a directory?
- (A) -l
 - (B) -i
 - (C) -x
 - (D) -R**
- 35) The special shell variable \${*} is used
- (A) To exit status of last command executed
 - (B) To process number of the current shell
 - (C) To list the positional parameters**
 - (D) To name the command being execute
- 36) Which set option is used with vi editor to display line numbers on screen?
- (A) nm
 - (B) nu**
 - (C) ic
 - (D) ll

37) Which command is used to list out all the hidden files along with the other files?

- (A) ls -l
- (B) ls -x
- (C) ls -F
- (D) ls -a**



38) The octal representation 652 indicates

- (A) Execute permission for the owner
- (B) Write permission for others**
- (C) Read and write permission of groups
- (D) None of the above

39) In vi editor, forward search is performed using the command.

- (A) :pat
- (B) ?pat
- (C) /pat**
- (D) None of the above

41) Which option is used with cmp command to give a detailed list of the byte number and the differing bytes in octal for each character that differs in both the files?

- (A) -l**
- (B) -d
- (C) -r
- (D) -b

42) Which command is used to copy the three files wb, collect and mon into the misc directory, under the same, when you were currently in the programs directory?

- (A) copy wb ../misc collect ../misc mon ../misc
- (B) cp wb collect mon ../misc**
- (C) copy wb collect mon /misc
- (D) tar wb collect mon /misc

43) Which command will be used with vi editor to append text at end of line?

- (A) A**
- (B) a
- (C) i
- (D) I

- 44) Which of the following shell's wildcards are used to match any number of characters including none?
- (A) [ijk]
(B) [!ijk]
(C) ?
(D) *
- 45) Which column contains all details of the permissions of a file when you issue the ls -l command?
- (A) Second
(B) Fourth
(C) Third
(D) First
- 46) Which is the earliest and most widely used shell that came with the UNIX system?
- (A) C shell
(B) Korn shell
(C) Bourne shell
(D) Smith shell
- 47) You can append to a file instead of overwriting by using the
- (A) > symbols
(B) >> symbols
(C) < symbols
(D) << symbols
- 48) Which option will be used with sort command to start sorting after the nth column of the (m+l)th field?
- (A) -m.n
(B) +m.n
(C) + n.m+1
(D) +(m+l).n
- 49) The ls -l command tells
- (A) Who the owner of the file is
(B) The name of the group owner of the file
(C) How large the file is and when the file was last modified
(D) All of the above



50) The UNIX file system stores a data in default mode in physical blocks of

- (A) 1024 bytes
- (B) 2048 bytes
- (C) 512 bytes**
- (D) 256 bytes

51) Which command is used to sort the lines of data in a file in reverse order

- (A) sort
- (B) sh
- (C) st
- (D) sort -r**

52) Which command is used to extract specific columns from the file?

- (A) cat
- (B) cut**
- (C) grep
- (D) paste

53) Which of the following is not a filter?

- (A) cat
- (B) grep
- (C) wc
- (D) None of the above**

54) Which of the following command is used to count just the number of lines contained in a file?

- (A) wc -l**
- (B) wc -c
- (C) wc -w
- (D) wc -r

55) Which command is used to display a file contents in octal form?

- (A) cd
- (B) od**
- (C) of
- (D) oct

56) Which command is used with vi editor to save file and remain in the editing mode?

- (A) :q
- (B) :w**
- (C) q!
- (D) :x

57) Which of the following command addresses all users who are currently hooked on?

- (A) write
- (B) mail
- (C) wall**
- (D) mesg

58) Which command is used to link the files?

- (A) lk
- (B) ln**
- (C) cp
- (D) tar

59) Which command is used to take backup in linux

- (A) tar**
- (b) backup
- (c) copy
- (d) diskcopy

60) Which of the following command is used to go to home directory?

- (A) cd..
- (B) cd/
- (C) cd**
- (D) cd HOME

61) The second set of the three permissions (r-) indicates that

- (A) Group has read permission only**
- (B) Other has read permission only
- (C) Owner has read permission only
- (D) Group has write permission only

62) Which command allows you to view your file 24 lines at a time?

- (A) more
- (B) pg
- (C) cat
- (D) lp

63) Which command is used to display the characteristics of a process?

- (A) pid
- (B) du
- (C) ps
- (D) au

64) In Vi Which of the following keys is used to replace a whole line?

- (A) R
- (B) v
- (C) C
- (D) u

65) Which of the following special shell variables is used to process number of the current shell?

- (A) \$!
- (B) \$\$
- (C) \$0
- (D) \$*

66) Which option will be used with touch command to change the access time?

- (A) -a
- (B) -b
- (C) -t
- (D) -h

67) Which command is used with vi editor to move the cursor to the left?

- (A) i
- (B) j
- (C) k
- (D) h

68) The command to count the number of files in the current directory by using pipes, is

- (A) ls | wc
(B) ls -l | wc -l
(C) ls | wc -w
(D) ls | ws -c

69) Which of the following commands is used to display the filenames in multiple columns?

- (A) ls
(B) ls -1
(C) ls -x
(D) lc

70) Which of the following keys is used to move the cursor to the end of the paragraph in vi editor.

- (A)]**
(B) {
(C) |
(D) \$

71) In Bourne shell, which file sets the Unix environment for the user when he logs into his HOME directory.

- (A) .exrc
(B) .profile
(C) lastlogin
(D) .mbox

72) Which of the following commands is used to display the directory attributes rather than its contents?

- (A) ls -l -d**
(B) ls -l
(C) ls -x
(D) ls -F

73) What is a shell script?

- a) group of commands
b) a file containing special symbols
c) a file containing a series of commands
d) group of functions

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- d) group of functions

75) Which command is used for making the scripts interactive?

- a) ip
- b) input
- c) read
- d) write

76) What are positional parameters?

- a) special variables for assigning arguments from the command line
- b) pattern matching parameters
- c) special variables for reading user input
- d) special variables and patterns

77) The first argument is read by the shell into the parameter ____.

- a) 1\$
- b) \$3
- c) \$\$
- d) \$1

78) The complete set of positional parameters is stored in _____ as a single string.

- a) \$n
- b) \$#
- c) \$*
- d) \$\$

79) Which of the following is not a feature of UNIX?

- a) multitasking
- b) multiuser
- c) portability
- d) easy to use

80) 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

81) Which of the following is not true about UNIX?

- a) Many people can use a UNIX based computer at the same time; hence UNIX is called as a multiuser system
- b) A user can run multiple programs at the same time; hence UNIX is called a multitasking environment
- c) **UNIX was not written in 'C' language**
- d) Linux is also known as a version of UNIX

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82) Which part of the UNIX operating system interacts with the hardware?

- a) **Kernel**
- b) Shell
- c) vi editor
- d) application program

83) What is a superuser?

- a) **system manager**
- b) normal user
- c) administrator
- d) a user with special rights

84) What is the windowing system of UNIX known as?

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

85) echo command is used for _____

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

86) What are escape sequences?

- a) special characters beginning with a \ (backslash)
- b) special commands
- c) special utilities
- d) a sequence of characters

87) Which of the following is not a valid escape sequence in UNIX?

- a) \n
- b) \t
- c) \v
- d) \d

88) Which command is used as an alternative to echo command?

- a) ls
- b) printf
- c) wc
- d) ps

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89) Which command is used by the user to change their login password in UNIX?

- a) man
- b) reset
- c) passwd
- d) cp

90) Which command handles a character stream by duplicating its input?

- a) tree
- b) tee
- c) tty
- d) ls

91) When backspace doesn't work to erase characters, we can use

- a) ctrl-f
- b) ctrl-h
- c) ctrl-c
- d) ctrl-u



92) For interrupting a command, we can use _____

- a) ctrl-f
- b) esc
- c) ctrl-h
- d) ctrl-c**

93) Apart from displaying file contents, cat command is also used for _____ files.

- a) displaying
- b) deleting
- c) copying
- d) creating**

94) Which symbol is used with cat command for creating files?

- a) >**
- b) <
- c) *
- d) /

95) If we create a file using cat command with the same filename which already exists in the current directory then,

- a) existing file is deleted
- b) new file will be created separately
- c) existing file will be overwritten**
- d) an error will be produced

96) Which symbol is used to append an existing file?

- a) >
- b) <
- c) >>**
- d) \$

97) Which option is used with cat command for displaying non-printable characters?

- a) -v**
- b) -n
- c) -x
- d) -a

98) Which option is used with the cat command for displaying file with line numbers?

- a) -n
- b) -v
- c) -a
- d) -x

99) Which of the following cannot be performed by cat command?

- a) displaying files
- b) creating files
- c) appending files
- d) deleting files**

100) Which files will be displayed by the following command:

- cat *file***
- a) all files in the directory
 - b) all files with filename containing 'file'**
 - c) no files will be displayed
 - d) a single file

101) Which one of the following commands is incorrect?

- a) cat file01
- b) cat > file01
- c) cat >> file1
- d) cat -a file01**

102) Which one of the following command can delete a directory which is not empty?

- a) rm -r**
- b) rmdir
- c) rm *
- d) del *

103) 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

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104) Apart from renaming files, mv command can also

- a) move a file
- b) move a group of files
- c) **rename a directory**
- d) move a group of files and rename a directory

105) Which option is used for backing up destination file in mv command?

- a) -b
- b) -f
- c) -v
- d) -i

106) Which option is used with mv command so that the destination file does not get overwritten?

- a) -n
- b) -f
- c) -b
- d) -i

107) A file can be recognized as an ordinary file or directory by ____ symbol.

- a) \$
- b) -
- c) *
- d) /

108) How many types of permissions a file has in UNIX?

- a) 1
- b) 2
- c) **3**
- d) 4

109) Which of the following symbol is used to indicate the absence of a permission of a file?

- a) \$
- b) &
- c) +
- d) -

110) What is group ownership?

- a) group of users who can access the file
- b) group of users who can create the file
- c) group of users who can edit the file
- d) group of users who can delete the file

111) The write permission for a directory determines that _____

- a) we can write to a directory file
- b) we can read the directory file
- c) we can execute the directory file
- d) we can add or remove files to it

112) Which of the following is default permission set for ordinary files?

- a) rw-rw-rw-
- b) rwxrwxrwx
- c) r-r-r-
- d) rw-rw-rwx

113) Which of the following is default permission set for directories?

- a) rw-rw-rw-
- b) rwxrwxrwx
- c) r-r-r-
- d) rw-rw-rwx

114) A file owner does not have a permission to edit the file but the group to which the file owner belongs do have the permission to edit it. Can owner edit the file?

- a) Yes
- b) No
- c) Cannot be defined
- d) Error will be encountered

115) chmod command can be used in _____ ways.

- a) 3
- b) 2
- c) 5
- d) 0

116) The expression used with chmod command to change permissions in a relative manner contains ____ components.

- a) 5
- b) 2
- c) 4
- d) 3

117) Which of the following characters specify the user and group category in chmod ?

- a) 'u' and 'g'
- b) 'g' and 'o'
- c) 'us' and 'gr'
- d) 'u' and 'o'

118) To assign execute permission to the user (owner) for a file named file01.txt, which of the following command will be used?

- a) chmod u+r file01.txt
- b) chmod u+w file01.txt
- c) chmod u-x file01.txt
- d) chmod u+x file01.txt

119) What does the following command do?

\$ chmod ugo +w file01.txt

- a) assign write permission to users, group and others
- b) assign write permission to the user (owner) only
- c) assign write permission to group and others
- d) command not executable

120) To remove write permission from group and others, which one of the following commands will be used?

- a) chmod go+w file01
- b) chmod go-w file01
- c) chmod ug-w file01
- d) chmod a-w file01



1.21) What are the permission of file01 after executing this command?

`chmod 777 file01`

- a) **rwxrwxrwx**
- b) rw-rw-rw
- c) r-r-r-
- d) r-r--

1.22) A file named file01 should be readable, writable and executable only by the user(owner). Which one of the following set of command will be used?

- a) **chmod 700 file01**
- b) chmod 000 file01
- c) chmod 477 file01
- d) chmod 777 file01

1.23) Which option is used for the recursive functioning of chmod command?

- a) **-R**
- b) -r
- c) -l
- d) -i

1.24) Which symbol is used to change permissions for hidden files?

- a) .
- b) &
- c) \$
- d) *

1.25) Which option is used by vi editor to open a file in read mode only?

- a) -r
- b) **-R**
- c) -d
- d) -f

1.26) How many types of modes are used by vi editor?

- a) 2
- b) 4
- c) **3**
- d) 1



127) What is the default mode of vi editor?

- a) Command mode
- b) Input mode
- c) Ex mode
- d) Insert mode

128) To insert text into a file, _____ mode is used.

- a) Command mode
- b) Input mode
- c) Ex mode
- d) def mode

129) ex mode is used for what purpose?

- a) file handling
- b) substitution
- c) file handling and substitution
- d) Inputting text in files

130) Which one of the following key is used to switch from command mode to input mode?

- a) i
- b) :
- c) esc
- d) ;

131) _____ key is used for switching to command mode from input mode.

- a) i
- b) A
- c) :
- d) esc

132) Which of the following key is used to enter in ex-mode?

- a) ESC
- b) i
- c) :
- d) ;

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133) Which of the following key is used to enter in ex-mode?

- a) ESC
- b) i
- c) :
- d) ;

134) To clear the screen in vi editor, _____ is used.

- a) ctrl-h
- b) **ctrl-l**
- c) ctrl-p
- d) ctrl-v

135) To quit vi editor without saving the buffer we can use

- a) :q
- b) :c
- c) :w
- d) :q!

136) The first UNIX editor was _____

- a) emacs
- b) ex
- c) **ed**
- d) vi

137) Which command is used to insert text before the current cursor location?

- a) a
- b) A
- c) I
- d) i

138) Which command will be used to insert text at the beginning of the line?

- a) i
- b) **I**
- c) a
- d) A

139) To append text after the current cursor location, we can use ____ command

- a) A
- b) a**
- c) i
- d) I

140) Which command appends text at the end of the current line?

- a) A**
- b) a
- c) i
- d) I

141) To replace a single character, we use ____ command

- a) r**
- b) R
- c) s
- d) i

142) To replace all text on the right of the cursor position, we use ____ command.

- a) r
- b) R**
- c) s
- d) I

143) Which one of the following command is used to replace a single character with many?

- a) s**
- b) r
- c) R
- d) S

144) To replace 5 characters with new characters, which one of the following will be used?

- a) s
- b) 5S
- c) 5s**
- d) S

145) To replace the entire line irrespective of cursor position, we can use _____ command

- a) s
- b) 10s
- c) **S**
- d) 10s

146) Which command creates a space for entering a new line of text below the current cursor location?

- a) o
- b) O
- c) a
- d) S

147) Pressing ':' in command mode invokes which mode of vi editor?

- a) **ex-mode**
- b) insert mode
- c) command mode
- d) input mode

148) To save the editing performed on a file, we have to switch to _____ mode

- a) command
- b) input
- c) **ex**
- d) insert

149) To save a file and return to shell prompt, which one of the following command will be used in ex-mode?

- a) :w
- b) '**x**'
- c) :a
- d) :



150) Which command is used for saving and quitting the editor simultaneously?

- a) :q
- b) :w
- c) ':x'
- d) :f

151) Which one of the following is the best way of saving and quitting the editor?

- a) ZZ
- b) :wq
- c) :w
- d) ':x'

152) Which command is used for deleting a single character?

- a) d
- b) dd
- c) x
- d) w

153) Which command is used for deleting the character on the left of the cursor?

- a) x
- b) X
- c) dd
- d) d

154) Which of the following commands will be used to delete 6 lines from the current cursor location?

- a) 6d
- b) 6X
- c) 6dd
- d) 6x

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155) ___ command moves the cursor to the end of next line.

- a) 0
- b) |
- c) %
- d) \$



156) Which of the following commands will move the cursor to the end of line number 30 if the current position of the cursor is line number 01?

- a) 30\$
- b) 30|
- c) 30b
- d) 30%

157) To navigate 20 pages forward, we can use _____ command.

- a) 20 ctrl-b
- b) 20 ctrl-d
- c) 20 ctrl-u
- d) 20 ctrl-f

158) Which command is used to know the current line number?

- a) ctrl-f
- b) ctrl-b
- c) ctrl-z
- d) ctrl-g

159) 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

160) Which of the following commands can be used to replace 'professor' with 'director' throughout the whole file?

- 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

161) Which one of the following commands will be used to delete all the instances of string 'manager' in file003?

- a) `1,$s/manager/ /g`
- b) `%s/manager/director/g`
- c) `1,$s/professor/director`
- d) `%s/manager/ /`

162) Providing a backslash (\) before the wild card to remove its special meaning is called _____

- a) escaping
- b) quoting
- c) listing
- d) pattern matching

163) To remove the file named my document.txt, which one of the following commands will be used?

- a) `rm my\ document.txt`
- b) `rm my document.txt`
- c) `rm *`
- d) `rm my_document.txt`

164) The category of commands which uses both standard input and standard output are called _____

- a) directory oriented commands
- b) standard input commands
- c) filters
- d) standard output commands

165) Which of the following files are known as special files in UNIX?

- a) sample.txt
- b) `/dev/null`
- c) `/dev/tty`
- d) `/dev/null and /dev/tty`



166) Which symbol is used to redirect error messages to /dev/null?

- a) %
- b) \$
- c) >
- d) <

167) Which file is used for indicating terminals?

- a) /dev/tty
- b) /dev/null
- c) terminal file
- d) device file

168) Shell enables one or more arguments to be obtained from the standard output of another command. This feature is called _____

- a) command substitution
- b) argument substitution
- c) shell substitution
- d) korn

169) Which of the following meta-character is used in command substitution?

- a) :
- b) '
- c) "
- d) >

170) POSIX recommends the use of _____ instead of archaic 'command' for command substitution.

- a) |
- b) #
- c) %
- d) \$



171) Which symbol is used for assigning a value to variables?

- a) \$
- b) &
- c) =
- d) @

172) Which symbol is used for evaluation of variables?

- a) \$
- b) &
- c) =
- d) @

173) Which of the following is a correct initialization of variables to null strings?

- a) x=
- b) x=' '
- c) x=" "
- d) x=, x=' ', x=" "

174) Shell ___ operator is used for running jobs in the background.

- a) \$
- b) #
- c) |
- d) &

175) Which command is used for running jobs in the background?

- a) nice
- b) ps
- c) nohup
- d) exec

176) When nohup command is used, shells returns the _____

- a) PID
- b) PPID
- c) tty
- d) TTy



177) What is the PID of the process who takes the parentage of the process run with nohup command?

- a) 0
- b) 1**
- c) 2
- d) Infinite

178) Which command is used for executing jobs according to their priority?

- a) nohup
- b) \$
- c) &
- d) nice**

179) nice command is a _____ command in C shell.

- a) internal
- b) external
- c) built-in**
- d) directory

180) Which option can be used explicitly to reduce the priority of any process in nice command.

- a) -o
- b) -n**
- c) -o
- d) -q

181) Which command is used for premature termination of a process?

- a) signal
- b) nice
- c) kill**
- d) nohup

182) Which one of the following command is used for killing the last background job?

- a) kill \$
- b) kill \$\$
- c) kill \$!**
- d) kill !

183) Which of the followings command(s) is used to kill the login shell?

- a) kill 0
- b) kill -9 \$\$
- c) kill -s KILL 0
- d) kill -9 \$\$ and kill -s KILL 0

184) Which command will push the current foreground job to the background?

- a) bg
- b) fg
- c) ctrl-Z
- d) kill

185) _____ command will bring the background jobs to the foreground.

- a) bg
- b) fg
- c) ctrl-Z
- d) kill

186) What does the following command do?

\$ kill %2

- a) kills job number 2
- b) kills the second background job
- c) invalid command
- d) kill all foreground & background jobs

187) Which command is used to list the status of jobs?

- a) fg
- b) JOBS
- c) jobs
- d) fg

188) Which of the following keyword is not supported by at command?

- a) now
- b) noon
- c) tomorrow
- d) evening

189) Which one of the following forms used with at command is invalid?

- a) at noon
- b) at now +2 years
- c) at 3:07 + 1 day
- d) at morning

190) Which command permits to schedule jobs for later execution, as soon as the system load permits?

- a) at
- b) %
- c) batch
- d) cron

191) What is a daemon?

- a) process whose parent has died
- b) process who has completed its execution but still has an entry in the process table
- c) process which is running infinitely
- d) process which runs automatically without any user interaction

192) What is cron?

- a) a simple process
- b) an orphan process
- c) a daemon
- d) a zombie process

193) pr command adds ____ lines of margin at the top and bottom.

- a) 5
- b) 4
- c) 2
- d) 1

194) Which option is used with pr command for printing multi-columnar output?

- a) -p
- b) -k
- c) -d
- d) -pr

195) Which option is used with pr command to suppress the header and footers?

- a) -p
- b) -k
- c) **-t**
- d) -n

196) Which command is used for displaying the beginning of a file?

- a) pr
- b) **head**
- c) begin
- d) lp

197) By default, how many lines are displayed using the head command?

- a) 5
- b) **10**
- c) 4
- d) 20

198) Which option is used with the tail command for extracting bytes instead of lines?

- a) -f
- b) -n
- c) **-c**
- d) -a

199) To extract specific columns from a file, _____ command is used.

- a) tail
- b) head
- c) pr
- d) **cut**

200) The expression cut -c -3 emp.lst will cut columns number _____

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



201) _____ option is used with the cut command for cutting fields.

- a) -c
- b) -n
- c) **-f**
- d) -a

202) Which one of the following commands is incorrect?

- a) \$ cut -d " " -f 1,4 emp.lst
- b) \$ cut -c -3 emp.lst
- c) \$ tail -c 511 foo
- d) **\$ tail -c foo**

203) The UNIX shell is both _____ and _____ language.

- a) interactive, responsive
- b) interpreter, executing
- c) **scripting, interpreter**
- d) high level, low level

204) The shell has _____ prompts.

- a) 1
- b) 4
- c) many
- d) **2**

205) Which one of the following command will change our primary prompt from \$ to C>?

- a) PS1="C> "
- b) PS2="C>"
- c) PS1=">C"
- d) PS2="<C"

206) Which environment variable is used to display our username?

- a) PATH
- b) MAIL
- c) **LOGNAME**
- d) HOME



207) Which one of the following is not an environment variable?

- a) HOME
- b) PATH
- c) USER
- d) env

208) Every file system has a directory structure headed by _____

- a) parent
- b) child
- c) root
- d) kernel

209) Every file is associated with a table which contains all possible information about a file, that table is called as _____

- a) info table
- b) file table
- c) inode
- d) ps table

210) Which of the following is not a content of inode?

- a) file type
- b) file permission
- c) file size and links
- d) file name

211) Which of the following is not stored in inode?

- a) file name
- b) inode number
- c) file size
- d) file name and inode number

212) The syntax of the find command is _____

- a) find path_list selection_criteria action
- b) find action path_list selection_criteria
- c) find selection_criteria action path
- d) find path action

213) Which option is used to find command to search for files based on access time?

- a) -atime
- b) -mtime
- c) -time
- d) -type

214) Which command is used for locating repeated and non-repeated lines?

- a) sort
- b) uniq
- c) cut
- d) paste

215) Which option is used with uniq command for selecting non-repeated lines?

- a) -i
- b) -c
- c) -u
- d) -a

216) _____ option is used for counting frequency of occurrence. In uniqu

- a) -d
- b) -c
- c) -u
- d) -a

217) To replace | with ~, which one of the following commands will be used?

- a) tr '|'\~'
- b) tr '|'\~'> emp.lst
- c) tr | ~ emp.lst
- d) !

218) Which option is used with tr command for deleting characters?

- a) -d
- b) -c
- c) -n
- d) -a

219) _____ option is used for compressing multiple consecutive characters. In tr command

- a) -d
- b) -c
- c) -n
- d) -s**

220) 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)**

221) Which one of the following command will be used for searching "director" in emp.lst?

- a) grep "director"
- b) grep -v "director" emp.lst
- c) grep -director emp.lst
- d) grep "director" emp.lst**

222) If there are special characters in a pattern, then we've to enclose them in _____ for grep command

- a) single quotes
- b) double quotes**
- c) without any quotes
- d) all quotes

223) Which option is used with grep command for ignoring the case in pattern searching?

- a) -a
- b) -v
- c) -i**
- d) -e

224) Which option is used with grep command for deleting lines?

- a) -v**
- b) -e
- c) -a
- d) -i

225) Which option is used for displaying the line numbers containing the pattern along with lines?

- a) -v
- b) -i
- c) -e
- d) -n

226) _____ option counts the number of lines containing the pattern? In grep command

- a) -c
- b) -i
- c) -e
- d) -n

227) The following command will match 'Agarwal', 'agarwal' and 'agrawal'.

- (a)**\$ grep "[aA]g[ar][ar]wal" emp.lst**
- (b)**\$ grep "{aA}g(ar){ar}wal" emp.lst**
- (c) \$ grep "(aA)g(ar)(ar)wal" emp.lst
- d) none

228) Which of the following symbols are used for matching a pattern at specified locations in grep

- a) *
- b) ^
- c) \$
- d) ^ and \$

229) What is the correct syntax for using sed?

- a) sed options file(s)
- b) sed options 'action'
- c) **sed options 'address action' file(s)**
- d) sed 'action' file(s)

230) Which one of the following command will be used for quitting after selecting 3 lines from file emp.lst?

- a) sed -n 3 emp.lst
- b) sed -i 1-3 emp.lst
- c) **sed '3q' emp.lst**
- d) sed -n



231) Which of the following command is used with sed for outputting as well as printing the selected lines?

- a) q
- b) n
- c) p
- d) i

232) To suppress the behavior of 'p' command of sed, we use ____ option.

- a) -q
- b) -n
- c) -i
- d) -v

233) To select lines containing gupta and agarwal, which command will be used?

- a) sed -n '/gupta/,/agarwal/p' emp.lst
- b) sed -n '/gupta/agarwal/p' emp.lst
- c) sed '/gupta | agarwal/p' emp.lst
- d) sed -n

234) Which one of the following is the correct syntax for performing substitution using sed?

- a) sed [address]s /expr1/ expr2
- b) sed [address]s /expr1 expr2
- c) sed [address]s /expr1/ expr2/ flags
- d) sed [address]s

235) To replace the string 'director' in the first five lines of file emp.lst with 'manager' we can use _____

- a) sed 's/director/manager/' emp.lst
- b) sed '1-5s/director/manager/' emp.lst
- c) sed '1,5s/director/manager/' emp.lst
- d) sed '15s

236) What will be the function of the following command?

\$ sed 's/ */|/|/g' emp.lst

- a) replace * with |
- b) replace / with |
- c) compress multiple spaces
- d) erroneous output

237) Which one of the following command will be used for adding two spaces before every line in emp.lst?

- a) sed 's/^/ /' emp.lst
- b) sed 's/ / /' emp.lst
- c) sed 's/\$/ /' emp.lst
- d) sed 's/\$/

239) Which command will be used for selecting lines 3 to 10 from emp.lst?

- a) sed 3,10 emp.lst
- b) sed -n '3,10p' emp.lst
- c) sed -n '^,10p' emp.lst
- d) sed -n, 10p

240) test command can be used to check which of the following?

- a) Compare two numbers
- b) Compare two strings
- c) Check attributes of a file
- d) All of the mentioned

241) Which of the following operator is used as a shorthand for test command?

- a) % %
- b) []**
- c) & &
- d) ()

242) Which one of the following option is used for checking that the string is not null in test command?

- a) -a
- b) -o
- c) -z
- d) -n**

243) Which option is used for checking if the file exists or not in test command?

- a) -e**
- b) -a
- c) -n
- d) -f

244) To check if the file exists and is executable we have to use ___ option with test.

- a) -e
- b) -f
- c) -x**
- d) -w

245) Where is the exit status of a command stored?

- a) \$0
- b) \$>
- c) \$1
- d) \$?**



246) Which of the following is false?

- a) here document provides standard input to any script non interactively
- b) read command is used for making scripts interactive
- c) \$* stores the number of arguments specified
- d) && and || are logical operators

247) test statement cannot _____

- a) compare two numbers
- b) compare two strings
- c) compare two files
- d) check a file's attributes

248) _____ option is used with a test for checking if the file exists and has the size greater than zero.

- a) -f
- b) -r
- c) -e
- d) -s

249) The SUID for any file can be set by the administrator using _____

- a) chmod
- b) chmod u+s filename
- c) chmod s filename
- d) chmod us filename

250) Which of the following is not a field stored in /etc/passwd?

- a) username
- b) password
- c) UID, GID
- d) encrypted password



251) Which command is used by the administrator to modify some parameters of existing users?

- a) userdel
- b) userchange
- c) useradd
- d) usermod

252) Which command is used to find out the consumption of a specific directory?

- a) du
- b) df
- c) mem
- d) dv

253) All the device files are stored in _____

- a) kernel
- b) /home/usr
- c) /dev
- d) /home

254) _____ command performs copying of diskettes.

- a) pp
- b) df
- c) du
- d) dd

255) which of the following is a backup program?

- a) bckup
- b) trap
- c) clop
- d) cpio & tar

256) tar command uses _____ option for backing up files.

- a) -a
- b) -c
- c) -d
- d) -f



257) For restoring files using tar, _____ option is used.

- a) -a
- b) -c
- c) -v
- d) -x

258) Which of the following will be used to print lines containing 'manager' in emp.lst?

- a) awk '/manager/ { print }' emp.lst
- b) awk '/manager { print }' emp.lst
- c) awk '/manager/ { print } emp.lst
- d) awk 'manager { print }' emp.lst

259) awk uses _____ for splitting a line into fields.

- a) special parameters
- b) shell variables
- c) env variables
- d) command arguments

260) Which built-in variable is used by the awk to specify the line numbers?

- a) AR
- b) NR
- c) \$\$
- d) \$?

261) A user-defined variable is initialized to _____ in awk

- a) zero
- b) zero or null string
- c) null
- d) operator

262) What is the default delimiter used by awk?

- a) tab
- b) whitespace
- c) double space
- d) |

263) awk uses __ and __ as comparison operators.

- a) \$\$, ^^
- b) ||, &&
- c) %%, ##
- d) ||, @@

T |

264) Which option is used for reading an awk program from a file?

- a) -e
- b) -f
- c) -i
- d) -F

265) Which of the following is a built-in variable for awk?

- a) ps
- b) \$0
- c) FS
- d) FN

266) In the ____ variable stores the name of the file currently being processed.in awk

- a) OFS
- b) FILENAME
- c) NF
- d) ES

267) Which of the following is not true about awk arrays?

- a) they are not expanded automatically
- b) they are initialized to zero or an empty string
- c) index can be a string also
- d) they are not formally defined

Jump2Learn

Short Question or Command (With ANSWERS ONLY)

1. Choose the command which can display only your information. **who**
2. The Octal number is to be given along with chmod command to make a file readable, writable and executable to the owner, readable and executable to group and others is:
\$ chmod 744
3. Write command to count just the number of characters in a file? **wc -c**
4. Write command to display a file contents in octal form? **od**
5. Write command to display and create files? **cat**
6. write commands to display your working directory? **path**
7. write commands to list contents of directories **ls**
8. write the option to create symbolic link **-s**
9. In grep command how to match pattern "bca" at the beginning of the line **^bca**
10. Which command is used to extract column from file **cut**
11. Which command is used to update the modification time of the file : **touch**
12. Which command in vi is used to replace a single character with new text
13. Write the command to sort a data file in reverse order : **sort -r**
14. Write command to know the working directory **path**
15. Write a command which display top lines from file : **head**
16. Which command is use to convert lower case text to upper case : **tr**
17. Which command is use to display number of process : **ps**
18. How to display i-node number of all files : **ls -i**
19. Write a command to remove a file forcibly which do not have write permission :
rm -f<filename>
20. write a command to count number of words in line 10 through 20 of file f1.txt.
\$ tail -n +10 f1.txt | head -n 20 | wc-w

21. Write a command to sort a line of abc.txt and also remove a repeated line.

\$ Sort -u abc.txt

22. To display total number of processes.

\$ ps -e | wc -l

23. Write a command to print first 25 line of file abc.txt.

\$ head -25 a1.txt

24. Write a command to replace 'gujarati' with 'gujarat university' in abc.txt.

\$ sed -e 's/gujarati/gujarat university/' a1.txt

25. Write a command to count number of characters in last line of file a1.txt

\$ echo '\$'a1.txt | wc -c

26. Write a command to display lines 10 to 30 from file a1.txt.

sed -n -e '30,50p' a1.txt

27. Write a command to count number of character in first five lines of file a1.txt

head -n 5 | wc -c a1.txt

28. Write a command to remove duplicate lines from x1

uniq x1

29. Write the various commands to run a programme a1.txt at 11.00 am

(1) \$ at 11:00 a1.txt

(2) \$ batch 110:00 a1.txt

(3) \$ crontab 11:00 a1.txt

30. write a command to replace 'UNIX SYSTEM' with 'SYSTEM' from line 15 to 35 in file abc.txt

sed -e '15,35//UNIX SYSTEM/SYSTEM/g' abc.txt

31. write a command to display blank line between 30 to 40 in file abc.txt

sed -e '30,40/ /p' abc.txt

32. write a command to display list of files containing 3 digit file name

ls [0-9][0-9][0-9]

33. write a command to display the lines which do not contain bca in file abc.txt

```
grep -vi bca abc.txt
```

34. Print all user/login names available in etc/passwd.

```
awk -F: '{print $1}' /etc/passwd
```

35. Using awk count the occurrences of pattern 'mkics' in file c1.

```
awk '/unix/{count++} END{print count}' f1
```

36. with the use of awk print lines on 10 to 20 from file x1.txt

```
$ awk 'NR >= 10 && NR <= 20' x1.txt
```

37. Count the total no. of lines in a file (use awk command)

```
awk '{count++} END{print count}' f1
```

38. write a command to print those lines where field2 is computer field3 > 15000 from sales file.

```
$ awk '($3=="computer" && $4>=15000) print' f3
```

39. Display lines beginning either with alphabet or digit from file x1.

```
sed -n '/^([0-9a-zA-Z])/p x1
```

40. Find out the number of the character '?' occur in file f1.txt.

```
$ grep -c '?' f1.txt
```

41. Display lines having exactly 50 characters in file f1.

```
grep -c -E '^.{50}$' f1
```

42. Count the number of blank lines in file f1.

```
grep "^\$" x1 |wc -l
```

43. Display lines having at least one \$ character in file x1.

```
grep "\$+" x1
```

44. To display all lines that contain pattern 'sy**' in a line.

```
grep 'sy**' x1
```
