

### **UNIX Operating System Multiple Choice Questions and Answers:**

1. Unix OS was first developed by

- a. Dennis Ritchie
- b. Bjarne stroustrup
- c. Ken Thompson
- d. Brian Kernighan

Ans. C

2. Unix OS was first developed at

- a. Microsoft corp. USA
- b. AT & T Bell Labs, USA
- c. IBM, USA
- d. Borland International, USA

Ans. B

3. Unix is written in

- a. C language
- b. Ada language
- c. Perl language
- d. Pascal language

Ans. A

4. Unix is a

- a. Single User, Single tasking OS
- b. Single User, Multi-tasking OS
- c. Multi-User, Multi- tasking OS
- d. None

Ans. C

5. Which of the following is a command for searching a pattern in a file?

- a. Find b.
- b. grep
- c. look up.
- d. None

Ans. B

6. Unix Command can be typed in

- a. Lower case
- b. Upper case
- c. Both the cases
- d. None

Ans. A

7. Shell Program is stored in a file called

- a. Unix
- b. sh
- c. dd
- d. cc

Ans. B

8. Which Bh shell offers a command history feature

- a. C shell
- b. Visual shell
- c. Bourne shell
- d. Korn shell

Ans. C

9. The minimum number of links for any directory file are

- a. 3

b. 4

c. 1

d. 2

Ans. D

10. The default value of Umask is

a. 1024

b. 4021

c. 0022

d. 1001

Ans. C

11. Binary executable required for system administration is usually placed in \_\_\_\_\_ directory.

a. /etc

b. /usr

c. /dev

d. none

Ans. A

12. All user directories are usually placed in \_\_\_\_\_ directory.

a. /etc

b. /usr

c. /dev

d. none

Ans. B

13. If there are three links for a file then the number of copies of the file would be

a. One

b. two

c. three

d. four

Ans. A

14. After typing the contents of file test created by you by giving the command `cat>test` you save the contents by

a. Pressing the keys `ctrl-c`

- b. Typing save and pressing enter
- c. Pressing Esc key
- d. Pressing ctrl-d

Ans. D

15. The file for which we do not have write permission can be deleted using the command

- a. `rm -i file`
- b. `rm -l file`
- c. `rm -r file`
- d. `rm -f file`

Ans. D

16. The permission 746 can be represented as

- a. `rw-rwx- -x`
- b. `rw- -w-r-x`
- c. `rw-r-xr-x`
- d. `rw-r- -rw-`

Ans. D

17. A Sticky bit applies to a file would mean that

- a. No one can remove it
- b. It would stick around in memory even when its execution is over
- c. Next time you login it would get executed on its own
- d. None of the above

Ans. B

18. The command `pwd` gives

- a. Present working directory
- b. Password in encrypted form
- c. Password in decrypted form
- d. None

Ans. A

19. Which of the following is not a unix command

- a. `cd`
- b. `rm`

c. pwd

d. del

Ans. D

20. The size of any block in the unix file system is

a. 512 bytes

b. 1024 bytes

c. 2048 bytes

d. Any of the above

Ans. D

21) To find the block size on your file system the command is

a. Blksz

b. Szblk

c. Chksz

d. Cmchk

Ans. D

22) Each entry in inode table is of size

a. 64 kb

b. 32kb

c. 32 bytes

d. 64 bytes

Ans. D

23) The program contained in boot block, that loads kernel into memory is called

a. Disk Bootstrap program

b. Master boot program

c. Shell program

d. None of the above

Ans. A

24) The state of the file system is contained in

a. Boot block

b. A special block created by Book Block

- c. Super Block
- d. None of the above

Ans. C

25) Which file gets executed when we use the passwd command

- a. /etc/passwd
- b. /etc/pwd
- c. /bin/passwd
- d. /passwd

Ans. C

26) The command cal j 1997 would give the output as

- a. The calendar of jan, june and july 1997
- b. Only calendar of jan 1997
- c. An error
- d. None of the above

Ans. C

27) The output of command banner "Unix shell programming" would be

- a. A banner showing 'unix', 'shell' and 'programming' words displayed in separate lines
- b. A banner showing 'unix shell' in one single line
- c. Nothing
- d. A banner showing 'unix shell programming' in one line.

Ans. B

28) To see the last access time of various files in a file system the command is

- a. ls -lu
- b. ls -l
- c. ls -acc
- d. ls -mt

Ans. A

29) To ascertain what are the contents of the file in your the system the best way would be

- a. Do a cat command on each file and find its contents
- b. Use the command cat\*

- c. Use the command file\*
- d. None of the above

Ans. C

30) Which of these is not a command of Unix related with DOS

- a. Dos dir a:proj
- b. Dos copy trial a:/
- c. Dos cp /HOME/Proj/Prg a:/
- d. Dos ls

Ans .B

31) Which of the following is not true

- a. Sorting is done on the basics of first character of each line
- b. Sort command sorts a file word by word rather than line by line
- c. Sort command has s provision to do a numeric sort
- d. Sort is not a filter

Ans. B

32) To change the access time of a file to 12:40 PM on 26th Jan 1997 the command would be

- a. touch -a 2601971240 file
- b. touch -a 1240260197 file
- c. touch -a 0126124097 file
- d. touch -a 9701261240 file

Ans. C

33) The command cut -f 2,8 -d ":" file I would output

- a. The fields 2 to 8 from file I where delimiter between fields is:
- b. The fields 2 to 8 from file I including the delimiter : between fields
- c. The columns 2 to 8 from file I with : between each column
- d. None of the above

Ans. D

34) The command to search the pattern "Hi there" in file I would be

- a. Grep "Hi there" file 1
- b. Grep Hi there file 1
- c. Grep \ file1

d. Grep 'Hi there' file 1

Ans. A

35) The command head f1 would display

- a. First line of the file f1
- b. Nothing
- c. First 10 lines of the file f1
- d. The whole file f1 Ans.

C

36) After you have entered text in your file, to save and quit vi you will use

- a. Esc shift ZZ
- b. Shift ZZ
- c. Esc :q Enter
- d. None of the above

Ans. A

37) To search a pattern which starts with uni the command would be

- a. :/\ d. :/\
- d. List of all abbreviations that have been set can be seen through the command :set abbr
- e. All are false

Ans. E

41) Which of following commands do not belong to multiple file editing commands

- a. :n!
- b. :q!
- c. :rnew!
- d. All the above

Ans. D

42) The difference between the commands ps -e and ps -a is

- a. Ps -e gives details of every process running in memory whereas ps -a gives output for all the process that you have launched
- b. Ps -e gives details of every process running in memory whereas ps -a gives details of all user processes
- c. No difference , both give same output
- d. None of the above



Ans. B

43) The father of all processes is

- a. root
- b. sh
- c. sched
- d. init

Ans. d

44) The process id numbers of the processes vhand, bdfush, sched and init are

- a. 1,2,3 and 4
- b. 2,3,0 and 1
- c. 3,4,1 and 2
- d. 0,1,2 and 3

Ans. B

45) Which of the following is not true regarding the command `$ nohup cat *.let | nohup sort >f1 &`

- a. The process would die if the user logs out before the command's execution is over
- b. If the user logs out the output of sort would be dtored in a file nohup.out
- c. It is optional to give nohup before sort
- d. This background process is also known as a daemon process

Ans. A,D

46) Which of the following is not true regards the kill command

- a. Super user can kill deamon processes
- b. For sure kill the signal no is 9
- c. There is no surety that the shell process will get killed by the command kill
- d. Using Kill command you can kill other user's processes too

Ans. A,D

47) Which of the following is not true

- a. The at command permits you to receive messages only by mail
- b. A person's login name appears in the file at.allow if he is not allowed to use the at command
- c. Both are false
- d. Both are true

Ans. C

48) Which statement are true if the file which contains the following line is submitted to the crontab command `10 2 3 * 0 echo "There is no substitute for hard work"`

- a. The message is echoed on the 3rd of every month at 2.10 a.m
- b. The message is echoed on the 3rd of every month at 2.10 p.m
- c. The message is echoed on the 3rd of every month at 2.10 a.m if it happens to be a Sunday
- d. None of the above

Ans. C

49) For a person to receive messages he should have his terminal set to a parameter which will allow him receive messages. The command to set this parameter is

- a. `message -on`
- b. `msg -o`
- c. `mesg -y`
- d. `message-y`

Ans. C

50) The command that unix offers to a user to find out whether he can send messages to a particular terminal are

- a. `finger` and `who`
- b. `finger -mesg` and `who -T`
- c. `finger -l` and `who -t`
- d. `finger -l` and `who -T`

Ans. D

51) If the user has read a news item he cannot read it again because of creation of the file

- a. `_news_time`
- b. `news.time`
- c. `.news.time`
- d. `.news_time`

Ans. D

52) To read the stale news the option available is

- a. `news -a`
- b. Delete the file `/usr/news`
- c. Delete the file `_news.time`
- d. Delete the file `.news_time`

Ans. A&D

53) The message of the day is stored in a file called

- a. /etc/profile
- b. /etc/motd
- c. .profile
- d. Autoexec.bat

Ans. B

54) The incoming mail of user with the login name aa12 is stored in the file

- a. /usr/spool/mail/aa12
- b. /usr/aa12/mbox
- c. /spool/mail/aa12
- d. /usr/aa12/.mbox

Ans. A

55) .mailrc is the file

- a. Which stores the incoming mail
- b. Which is used to type the mail to be sent
- c. Which is invoked when the mail command is executed
- d. Which permits you to customize the vi environment

Ans. C

56) The escape sequence \033[4m is used to

- a. underlying characters
- b. mark them as bold
- c. display them in reverse video
- d. none of the above

Ans. B

57) Which of the following assignments is illegal

- a. a='ls'
- b. b='ls -l'
- c. c='1972'
- d. d='who | grep aa1'

Ans. C

58) Which of the following assignment is illegal

- a. a='cat file'
- b. a=100 b=50
- c. age=25
- d. all the above

Ans. C

59) A null variable a can be created using

- a. a=
- b. a=""
- c. a=""
- d. All the above

Ans. D

60) The shell metacharacter \$# represents

- a. Total number of arguments supplied to the shell script
- b. Total number of files in the current directory
- c. Total number of users who have logged in
- d. Total number of processes running in the background

Ans. A

61. When we are executing a shell script the shell acts as

- a. An interpreter
- b. A compiler
- c. An operating system
- d. None of the above

Ans. A

62. On executing a statement set -3+1

- a. \$1 would be -3
- b. \$1 would be -
- c. \$1 would be set
- d. This command would result into an error

Ans. D

63. On executing the command Shift \$v

- a. The positional parameters would be shifted by the value of the variable v
- b. The positional parameters would be shifted by 1
- c. The positional parameters would not be shifted at all
- d. This command would result into an error

Ans. A

64. Which of the following is NOT a shell keyword

- a. Shift
- b. Read only
- c. Unset
- d. ls

Ans. D

65. To the statement `read v1 v2 v3` we can supply

- a. maximum 3 values
- b. only 1 value
- c. exactly 3 values
- d. any number of values

Ans. D

66. The metacharacter `$*` represents

- a. Number of parameters supplied at the command prompt
- b. Parameters supplied at the command prompt
- c. Value of the variable `*`
- d. All files in the current directory

Ans. B

67. A shell variable cannot start with

- a. An alphabet
- b. A number
- c. A special symbol other than an underscore
- d. Both b and c above

Ans. D

68. Which of the following shows the correct hierarchy of arithmetic operations in shell

- a. (), \*\*, \* or /, + or -
- b. (), \*\*, \*, /, +, -
- c. (), \*\*, /, \*, +, -
- d. (), /, % or \*, - or +

Ans.

D

69. Which of the following statements is correct

- a.  $a = \text{expr } \$b + \$c$
- b.  $a = \text{'expr } \$b * \$c'$
- c.  $a = \text{'expr } \$b * (\$c + \$d)'$
- d.  $a = \text{'expr } \$b \setminus * \setminus (\$c + \$d \setminus)'$

Ans. D

70. Which of the following is allowed in an arithmetic statement involving expr instruction

- a. []
- b. {}
- c. ()
- d. None of the above

Ans. C

71. The statement  $z = \text{'expr } 5/2'$  would store in z a value a. 2.5 b. 3

- c. 2
- d. 0

Ans. C

72. The expression  $\text{expr } -7 \% 2$  evaluates to

- a. 1
- b. -1
- c. -3.5
- d. 0

Ans. B

73. The expression  $\text{expr } -2 \% 7$  evaluates to

- a. 2
- b. -2

- c. 0
- d. 0.2

Ans. B

74. Hierarchy decides which operator

- a. Is most important
- b. Is used first
- c. Is fastest
- d. Operates on largest numbers

Ans. B

75. The break statement is used to exit from

- a. An if statement
- b. A for loop
- c. A program
- d. None of the above

Ans. B

76. An until loop ensures that the statement within the loop get executed

- a. Only once
- b. At least once
- c. Not even once
- d. None of the above

Ans. D

77. The cp command uses

- a. Standard input file
- b. Standard output file
- c. Both input and output file
- d. Neither input nor output file

Ans. D

78. Which option will be used with sort command to start sorting after the nth column of the (m+1)th field

- a. -m.n
- b. +m.n

- c.  $+n.m+1$
- d.  $+(m+1).n$

Ans. B

79. Which command is used to terminate a process

- a. Shutdown
- b. Halt sys
- c. Cancel
- d. Kill

Ans. D

80. The command is used to compare the files is known as

- A. comp
- b. cmp
- c. Do
- d. ccp

Ans. B

81) Which of the following keys is used to move the cursor to the end of the paragraph

- a. }
- b. {
- c. |
- d. \$

Ans. A

82) The command which transcribes the standard input to the standard output and also makes a copy of the same in a file is

- a. tee
- b. tr
- c. sort
- d. grep

Ans. A

83) Which command is used to remove a directory

- a. rd
- b. rmdir



c. Dldir

d. Rdir

Ans .B

84) Which of the following keys is used to replace a single character with new text

a. S

b. s

c. r

d. C

Ans. B

85) Which command is used to extract a specific columns from the file

a. cat

b. cut

c. grep

d. paste

Ans. B

86) Which command sends the word count of the file infile to the newfile.

a. wc infile>newfile

b. wc newfile

c. wc infile – newfile

d. wc infile | newfile

Ans.A

87) Which command is used to remove the read permission of the file 'note' from both the group and others?

a. chmod go+r note

b. chmod go+rw note

c. chmod go-x note

d. chmod go-r note

Ans. D

88) Which command is used to concatenate all files beginning with the string 'emp' and followed by a non-numeric characters?

a. cat emp[!0-9]

b. more [emp][!0-9]

c. cat emp[x-z]

d. cat emp[a-z]

Ans. A

89) Which command will be used with vi editor to insert text to left of cursor?

a. s

b. S

c. a

d. i

Ans. D

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

a. :pat

b. :pat

c. /pat

d. All of the above

Ans. D

91) Which of the following special shell variables is used to process number of the last background job?

a. \$!

b. \$#

c. \$0

d. \$\*

Ans. A

92) Which option will be used with ps command to show the entire command line of the process being run?

A. -4

B. -f

C. -1 D. -4

Ans. B

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

A. write

B. mail

C. wall

D. mesg

Ans. C

94) Which of the following commands is used to identify the type of file by context?

A. ls

B. cat

C. file

D. more

Ans. C

95) The field separator in cut command is specified with

A. -a option

B. -d option

C. -r option

D. -x option

Ans. B

96) Which of the following options will be used to display number of blocks used by a file?

A. -c

B. -i

C. -d

D. -s

Ans. D

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

A. -a

B. -b

C. -t

D. -h

Ans. A

98) Which command is used to make all files and sub-directories in the directory (progs) executable by all users?

A. chmod -R a+x progs

B. chmod -R 222 progs

C. chmod -1 a+x progs

D. `chmod -x a+x progs`

Ans. A

99) Which command is used to display and create files?

A. `cat`

B. `vi`

C. `ed`

D. `lyrix`

Ans. A

100) 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

Ans .A