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Linux Operating System Management Job Interview Preparation Guide.

Which of the following time stamps need not exist for a file on traditional unix file system:

- a) Access Time
- b) Modification Time
- c) Creation Time
- d) Change Time

Answer:-

c) Creation Time

Read More Answers.

Question # 2

Which command is used to set limits on file size:

- b) flimit
- c) ulimit
- d) usize

Answer:-

c) ulimit

Read More Answers.

Question #3

Which option of rmdir command will remove all directories a, b, c if path is a/b/c:

- b) -o
- c) -p d) -t

Answer:-

c) -p

Read More Answers.

Question # 4

Which represents the user home directory:

- d) ~

Answer:-

d) ~

Read More Answers.

Question #5

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 sytem is not rebooted
- d) The file will be moved to /lost+found directory and can be recovered only by administrator's intervention

Answer:-



b) The file cannot be recovered by a user

Read More Answers.

Question #6

What command is used to copy files and directories?

a) copy b) cp

c) rn

d) cpy

Answer:-

b) cp

Read More Answers.

Question #7

Any file's attribute information is stored in which structure on the disk:

- a) Inode
- b) Data blocks
- c) File blocks
- d) Directory file

Answer:-

a) Inode

Read More Answers.

Question #8

Executing the 'cd ..' command when at the root level causes:

- a) Error message indicating the user can't access beyond the root level
- b) Behavior is unix-flavor dependent
- c) Results in changing to the 'home' directory
- d) Nothing happens

Answer:-

d) Nothing happens

Read More Answers.

Question #9

How do you rename file "new" to file "old"?

- a) mv new old
- b) move new old
- c) cp new old
- d) rn new old

Answer:-

a) mv new old

Read More Answers.

Question # 10

What UNIX command is used to update the modification time of a file?

- a) time
- b) modify
- c) cat
- d) touch

Answer:-

d) touch

Read More Answers.

Question # 11

When my f1 f2 is executed which file's inode is freed?

- c) new inode will be used
- d) implementation dependent

Answer:-

b) f2

Read More Answers.

Question # 12

Where can I find the printer in the file structure?

- a) /etc
- b)/dev



- c)/lib
- d) /printer

Answer:-

b)/dev

Read More Answers.

Question #13

Which of the following statement is true?

- a) The cp command will preserve the meta data of the file
- b) The sort command by default sorts in the numeric order
- c) The my command will preserve the meta data of the file
- d) The command ps will display the filesystem usage

c) The my command will preserve the meta data of the file

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Question # 14

Creation of hardlinks that point across partitions:

- a) is allowed only to root user
- b) Can be done by all users
- c) The effects are unspecified
- d) is not allowed

Answer:-

d) is not allowed

Read More Answers.

Question #15

Which command is used to change permissions of files and directories?

- a) mv
- b) chgrp
- c) chmod
- d) set

Answer:-

c) chmod

Read More Answers.

Question # 16

If two files on same partition point to the same inode structure they are called:

- a) Soft links
- b) Hard links
- c) Alias
- d) Special files

Answer:-

b) Hard links

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Question # 17

Deleting a soft-link:

- a) Deletes the destination file
- b) Deletes both the softlink and the destination file
- c) Deletes just the softlink
- d) backup of the destination is automatically created

Answer:-

c) Deletes just the softlink

Read More Answers.

Question # 18

A user creates a link to a file file1 using the following command "In file1 file2". Which of the following is not true?

- a) file1 and file2 have the same inode numbers
- b) The number of links for file1 is displayed as 1
- c) The number of links for file1 is displayed as 2
- d) The number of links for file2 is displayed as 2

b) The number of links for file1 is displayed as 1

Read More Answers.

Question #19



How	many	links	are	created	when	we	create	a	directory	file?
a) 1										

Answer:-

b) 2

Read More Answers.

Question # 20

Which among the following allows fast file system recovery?

- a) Ext2
- b) Journaling
- c) Caching
- d) Sysfs

Answer:-

b) Journaling

Read More Answers.

Question # 21

There are two hard links to the "file1" say hl and h2 and a softlink sl. What happens if we deleted the "file1"?

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

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

- c) We will be able to access the file with any of hl, h2 and sl
- d) We will not be able to access the file with any of hl, h2 and sl

Answer:-

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

Read More Answers.

Question # 22

By default if any regular file is created, the number of link is displayed as 1?

- a) True
- b) False

Answer:-

a) True

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Question # 23

Which command is used to check filesystem usage in a system?

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

Answer:-

b) df

Read More Answers.

Question # 24

Filesystem for CDROM is:

- a) Ext2
- b) Ext3
- c) Isofs
- d) Procfs

Answer:-

c) Isofs

Read More Answers.

Question # 25

Which command is used to mount file system read only?

- a) mount -a
- b) mount -v
- c) mount -f
- d) mount -r

Answer:-

d) mount -r

Read More Answers.



Question # 26

Which filesystem can be used to change certain kernel parameters at runtime using sysctl command?

- b) Sysfs
- c) Ext4
- d) Procfs

Answer:-

d) Procfs

Read More Answers.

Question # 27

Which file contains the filesystems to be automatically mounted during boot?

- a) /etc/mount
- b) /etc/fstab
- c) /etc/inittab
- d) /etc/boot

Answer:-

b) /etc/fstab

Read More Answers.

Question # 28

Nohup is used to:

- a) automatically hang up the process after logout
- b) continue the process after logout
- c) create backgroung process
- d) manually hang up the process after logout

Answer:-

b) continue the process after logout

Read More Answers.

Question # 29

We can change the priority of a running process using:

- (b) renice
- (c) priority cannot be changed for a running process
- (d) only superuser can change the priority

Answer:-

(b) renice

Read More Answers.

Question # 30

The signal sent to a process when the Ctrl-C key is pressed is:

- a) KILL
- b) TSTP c) TERM
- d) INT

Answer:-

d) INT

Read More Answers.

Question # 31

Which of the following values for STAT column of ps command is not true:

- a) status R means running
- b) Status S means sleeping
- c) Status E means exited
- d) Status Z means zombie

Answer:-

c) Status E means exited

Read More Answers.

Question #32

Which file system has journaling capability?

- a) Ext2
- b) Ext4
- c) Isofs d) Procfs



b) Ext4

Read More Answers.

Question #33

is a directory (which should exist), on which to mount the file system?

- a) Root
- b) Boot
- c) Mount-point
- d) Partition

c) Mount-point

Read More Answers.

Question # 34

A user issues the following command sequence:

\$ a.out &

\$ bash

\$ a.out &

If the user kills the bash process, then which of the following is true?

- a) The second a out process is also terminated
- b) The second a.out process becomes a defunct process
- c) The first a.out process becomes a zombie process
- d) init process becomes parent of second a.out process

d) init process becomes parent of second a.out process

Read More Answers.

Question #35

When a child process exits before the parent process exits, which of the following is true:

- a) the child process becomes defunct
- b) the parent process becomes defunct
- c) if the parent process does not handle SIGCHLD, the child process becomes a zombie
- d) none of the above

Answer:-

b) the parent process becomes defunct

Read More Answers.

Question #36

Which signal is sent by the command "kill -9"?

- a) INT
- b) TERM
- c) KILL
- d) STOP

Answer:-

c) KILL

Read More Answers.

Question #37

Which command can be executed by a user who is already logged into the system, in order to change to the root user? (type the command without any parameters)

- a) su
- b) root
- c) chroot d) user

Answer:-

Read More Answers.

Question #38

Which command is used to bring the background process to forground?

- a) bg
- b) fg
- c) background
- d) forground

Answer:-

b) fg

Read More Answers.

Question #39



User's Primary Group id is listed in which file, at the time of creation of the user (On a standard Unix system):

- a) /etc/passwd
- b) /etc/groups
- c) /etc/login
- d) /etc/profile

Answer:-

a) /etc/passwd

Read More Answers.

Question # 40

A user can change the default log-in shell using:

- a) chmod
- b) chsh
- c) rmsh d) tchsh

Answer:-

b) chsh

Read More Answers.

Question # 41

Process information in the current shell can be obtained by using:

- a) kill
- b) bg
- c) fg
- d) ps

Answer:-

d) ps

Read More Answers.

Question # 42

If a program executing in background attempts to read from STDIN:

- a) It is terminated
- b) It's execution is suspended
- c) STDIN is made available to it
- d) None of the mentioned

b) It's execution is suspended

Read More Answers.

Question #43

Which of the following identifiers associated with a process decide its privilege level:

- a) uid
- b) suid c) euid
- d) gid

Answer:-

c) euid

Read More Answers.

Question # 44

How to run a process in the background?

- a) &
- b) * c) ?
- d) |

Answer:-

a) &

Read More Answers.

Question # 45

The encrypted password of a user is stored in:

- a) /etc/shadow
- b) /etc/enpasswwd
- c) /etc/.passwd
- d) /etc/passwd

Answer:-

a) /etc/shadow



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Question # 46

User id 0 is:

- a) An invalid user id
- b) The id of the root user
- c) The id of a user when the user's account is deleted
- d) None of the above

Answer:-

b) The id of the root user

Read More Answers.

Question # 47

The /etc/passwd file doesn't contain:

- a) userid
- b) home directory for a user
- c) login shell name
- d) None of the above

Answer:-

d) None of the above

Read More Answers.

Question # 48

What does the following command do?

who | wc -l

- a) List the number of users logged in
- b) List the users
- c) List the number of users in the system
- d) Display the content of who command

Answer:-

a) List the number of users logged in

Read More Answers.

Question #49

The login shell is:

- a) The shell program that runs when the user logs in
- b) The shell program that authenticates the user while logging in
- c) Common shell for all the users that belong to the same group
- d) None of the above

a) The shell program that runs when the user logs in

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Question # 50

By default, a Linux user falls under which group?

- a) staff
- b) others
- c) same as userid (UPG)
- d) system

Answer:-

c) same as userid (UPG)

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Question #51

Which of the following command can be used to change the user password?

- a) User can't change the password
- b) passwd c) passd
- d) pwd
- Answer:-

b) passwd

Read More Answers.

Question # 52

What is a context switch?

- a) Kernel switches from executing one process to another.
- b) Process switches from kernel mode to user mode.



- c) Process switches from user mode to kernel mode.
- d) None of the above

Answer:-

a) Kernel switches from executing one process to another.

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Question #53

What is the default maximum number of processes that can exist in Linux?

- b) 1024
- c) 4096
- d) unlimited

Answer:-

a) 32768

Read More Answers.

Question #54

Which of the following files need to be referred for user's secondary group?

- a) /etc/passwd
- b) /etc/shadow
- c) /etc/group
- d) /etc/profile

Answer:-

c) /etc/group

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Question #55

How do you get parent process identification number?

- a) waitpid
- b) getpid()
- c) getppid()
- d) parentid()

Answer:-

c) getppid()

Read More Answers.

Question # 56

Pid of init process:

- b) 1 c) 32767
- d) none of the above

Answer:-

b) 1

Read More Answers.

Question # 57

Return value of fork() system call can be:

- a) -1,<0,0 b) -1,>0,0

Answer:-

b) -1,>0,0

Read More Answers.

Question # 58

How many times printf() will be executed in the below mentioned program? main() { int i;

```
for (i = 0; i < 4; i++)
fork();
```

printf("my pid = %dn", getpid());

- a) 4 b) 8

- c) 16 d) 32

Answer:-



c) 16

Read More Answers.

Question #59

```
What is output of the following program?
```

```
int main() {
        fork();
        fork();
        fork();
       if (wait(0) == -1)
            printf("leaf childn");
a) "leaf child" will be printed 1 times
b) "leaf child" will be printed 3 times c) "leaf child" will be printed 4 times d) "leaf child" will be printed 8 times
```

Answer:-

c) "leaf child" will be printed 4 times

Read More Answers.

Question # 60

```
What is the output of the below code?
  void exit_handler1();
  void exit_handler2();
  int main() {
    int pid;
    atexit(exit_handler1);
    atexit(exit_handler2);
    pid = fork();
    if(pid == 0) {
      _exit(0);
    } else {
      sleep(2);
      exit(0);
    return 0;
a) Only child executes the exit_handler 1 and 2.
b) Only parent executes the exit_handler 1 and 2.
c) Both parent and child executes the exit_handler 1 and 2.
d) Neither parent nor child executes the exit_handler 1 and 2.
```

b) Only parent executes the exit_handler 1 and 2.

Read More Answers.

Question #61

The maximum time slice that can be given to a process in Linux (where tick is 10ms) is:

- a) 150ms
- b) 10ms
- c) 300 ms
- d) 600ms

Answer:-

d) 600ms

Read More Answers.

Question # 62

Which niceness value among the following indicate most favorable scheduling? a) 0

b) 19

d) -20

Answer:-

d) -20

Read More Answers.

Question #63

The process which terminates before the parent process exits becomes:

- a) Zombie b) Orphan
- c) Child
- d) None of the above



Answer:-

a) Zombie

Read More Answers.

Question # 64

Fork returns _____ to parent process on success:

b) child process id

c) parent process id

d) none

Answer:-

b) child process id

Read More Answers.

Question #65

Nice can be used by an ordinary process to:

- a) increase the priority of a process b) decrease the priority of a process c) increase or decrease the priority of a process

Answer:-

b) decrease the priority of a process

Read More Answers.

Question # 66

In Linux kernel-2.6 Real time priority ranges from:

- a) 0 to 99
- b) 0 to 139
- c) -20 to 19
- d) 100 to 139

Answer:-

a) 0 to 99

Read More Answers.

Question # 67

Solaris system class priority is:

a) 0-59

b) 60-99

c) 100-159 d) 160-169

Answer:b) 60-99

Read More Answers.

Question # 68

Solaris real time class priority is:

a) 0-59

b) 60-99

c) 100-159

d) 160-169

Answer:-

c) 100-159

Read More Answers.

Question #69

On x86-32 Linux, at which address the code segment of the program starts?

a) 0times00000000

b) 0times08048000

c) 0times80000000

d) 0xbfff0000

Answer:-

b) 0times08048000

Read More Answers.

Question #70

A system has 512MB of physical memory. Which among the following is not a suitable virtual memory size for this system architecture?

- a) 512MB
- b) 256M



- c) 4GB
- d) None of the above

Answer:-

d) None of the above

Read More Answers.

Question #71

LRU stands for:

- a) Last received Unit
- b) Least recently Used
- c) Least recently usable
- d) Lost Recoverd unit

b) Least recently Used

Read More Answers.

Question #72

Mm struct maintains?

- a) memory files
- b) open files
- c) pipe
- d) active memory regions

Answer:-

d) active memory regions

Read More Answers.

Question #73

Which system call can be used by a user process to lock a memory so that it cannot be swapped out?

Answer:-

memlock()

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Question #74

Is page table per process entity?

- a) Yes
- b) No

Answer:-

a) Yes

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Question #75

On x86-32 Linux, at which address the user stack resides normally?

- a) 0times00000000
- b) 0x3fff0000
- c) 0x7fff0000
- d) 0xbfff0000

Answer:-

d) 0xbfff0000

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Question #76

Describe the use of strace command

Answer:-

Strace can be used to check the system calls called by the program. So, this can be used for debugging and benchmarking purposes.

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Question #77

Among these files which has an ELF format:

- a) shared objects
- b) core
- c) executables
- d) all of the above

Answer:-

d) all of the above

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Question #78

Which one can be a real time schedule policy?

- a) SCHED_FIFO
- b) SCHED_SPF
- c) SCHED_OTHER
- d) SCHED_FILO

Answer:-

a) SCHED_FIFO

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Question # 79

Each process has unique:

- a) fd table
- b) file table
- c) inode table
- d) data block table

Answer:-

a) fd table

Read More Answers.

Question # 80

File descriptor table indexes which kernel structure?

- a) struct file
- b) strruct fs_struct
- c) files_struct
- d) struct inode

Answer:-

a) struct file

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Question #81

What is the default number of files open per user process?

- b) 1 c) 2
- d) 3

Answer:-

d) 3

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Question # 82

Switch table is used by:

- a) device special file
- b) directory file
- c) fifo
- d) link file.

Answer:-

a) device special file

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Question #83

What is the use of fcntl function?

- a) locking a file
- b) reading the file descriptor flag
- c) changing the file status flag
- d) all the above

Answer:-

d) all the above

Read More Answers.

Question #84

The file system information is stored in:

- a) Boot block
- b) Super Block
- c) Inode Table
- d) Data Block

Answer:-



b) Super Block

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Question #85

Printf() uses which system call:

- a) open
- b) read
- c) write d) close

Answer:-

c) write

Read More Answers.

Question # 86

read() system call on success returns:

- b) -1
- c) number of character d) none

Answer:-

c) number of character

Read More Answers.

Question #87

Which system call is used to create a hard link?

- a) hard-link
- b) link
- c) symlink

Answer:-

b) link

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Question #88

namei() is:

- a) ANSI C library function
- b) C library function
- c) System call
- d) kernel routine

Answer:-

d) kernel routine

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Question #89

dup2(1.0):

- a) closes the stdout and copies the stdin descriptor to stdout
- b) closes the stdin and copies the stdout descriptor to stdin
- c) will produce compilation error
- d) None of the above

Answer:-

b) closes the stdin and copies the stdout descriptor to stdin

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Question #90

If the fork() system call returns -1, then it means?

- a) No new child process is created
- b) The child process is an orphan
- c) The child process is in Zombie

a) No new child process is created

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If one of the thread in multi-threaded process is blocked on an I/O, which of the following is true?

- a) The entire process with block if their is no kernel supported threads
- b) Other threads of the process will continue to execute even if there is no kernel supported threads
- c) It depends on specific implementatation



d) All of the above

a) The entire process with block if their is no kernel supported threads

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Question #92

```
Which function can be used instead of the dup2 to duplicate the file descriptor?
```

- a) read()
- b) open()
- c) stat()
- d) fcntl()

Answer:-

d) fcntl()

Read More Answers.

Question #93

```
Below is the code:
int main() {
int fd1, fd2;
struct stat buff1, buff2;
fd1 = open("1.txt", O_RDWR);
fd2 = open("2.txt", O_RDWR | O_APPEND);
lseek(fd1, 10000, SEEK_SET);
write(fd1, "abcdefghij", 10);
write(fd2, "abcdefghij", 10);
fstat(fd1, &buff1);
fstat(fd2, &buff2);
printf(" %d %d", buff1.st_size, buff2.st_size);
Before running the program, the file 1.txt and 2.txt size is 20 each. What is the output?
a) 30 30
b) 100020 20
c) 100030 30
d) 100010 30
```

Answer:-

d) 10001030

Read More Answers.

Question # 94

```
Given a code snippet below?
#define PERMS (S_IRUSR | S_IWUSR | S_IRGRP | S_IWGRP | S_IROTH | S_IWOTH)
int main() {
int fd1, fd2;
umask(0);
dl = open("file1", O_CREAT | O_RDWR, PERMS)
umask(S_IRGRP | S_IWGRP | S_IROTH | S_IWOTH);
fd2 = open("file2", O_CREAT | O_RDWR, PERMS)
return 0:
The newly created files file1 and file2 will have the permissions respectively
a) rw-rw-rw-r---
b) r--- rw-rw-rw-
c) rw-rw-rw-rw--
d) None of the above
Answer:-
```

c) rw-rw-rw-rw---

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Question #95

```
What is stored in logfile as per below mentioned code if we execute ./a.out > logfile?
int main() {
int fd;
close(1);
fd = open("logfile",O_RDWR, 0744); write(fd, "Hello", 5);
printf("Worldn");
return 0;
a) Hello
b) HelloWorld
c) World
d) None
```



Answer:-

b) HelloWorld

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Question #96

Code snippets str1="45678n" str2="123n" f1 = fopen(file1,RDWR,RWX)f2 = fopen(file1,RDWR,RWX)write(f1,str1,len_str1) write(f2,str2,len_str2) o/p: a) 12378

b) 123(newline)8(newline)

c) 123(newline)78(newline)

d) 45678(newline)123(newline)

Answer:-

b) 123(newline)8(newline)

Read More Answers.

Question # 97

Code snippet (file1 size is 2024) f1 = fopen (file1, RDWR, RWX) lseek(f1,1024,SEEK_SET) write(f1,buf,10) What is offset now. a) 1024 b) 1034

c) 2034

d) 2054

Answer:-

b) 1034

Read More Answers.

Question #98

Code snippets str1="45678n" str2="123n" f1 = fopen(file1,RDWR,RWX) f2 = dup(f1)write(f1,str1,len_str1) write(f2,str2,len_str2) o/p: a) 12378

b) 123(newline)8(newline)

c) 123(newline)78(newline)

d) 45678(newline)123(newline)

Answer:-

d) 45678(newline)123(newline)

Read More Answers.

Question #99

For the below mentioned code: int main() { int fd: fid = open("logfile", O_CREAT|O_RDWR, 0600); lseek(fd, 5, SEEK_CUR); write(fd, "Hello", 5); return 0; What is the logfile size now if it's initially was 1024 bytes? b) 1024 c) 1029 d) 1034

Answer:-

b) 1024

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