

OS & SP Tech Poll

- 1) A file earth.txt has permissions of 0646, what will the command 'chmod o+w earth.txt' do?
 - it doesn't change anything in the context of file permissions
 - it gives an error saying permissions are already the same
 - it gives an error saying permissions can not be changed for others, unless changed for group too.
 - it removes the write permission for others

- 2) Which command helps you view the list of files & directories within a folder ?
 - Ls
 - view
 - display
 - show

- 3) What would be the command if you have to rename a file one.txt to two.txt
 - rename one.txt two.txt
 - alias one.txt two.txt
 - rn one.txt two.txt
 - mv one.txt two.txt

- 4) If I am searching for a word "linux" in a text file and also need the line number where it occurs, then which option suits best with grep:
 - -num
 - -numeric
 - -number
 - -n

- 5) There is a file named life and we run the command sort -R life.txt. What do we get in return?
 - randomly sorted life is put on the screen
 - life is displayed as jumbled up
 - life doesn't change, but something somewhere gets sorted
 - looks like all options are true (pretty much like my life)

- 6) What would be a neater way to convert to lower case to upper case in a Linux file?
 - use the tr command
 - use the convert command
 - do it manually
 - delegate it to a younger sibling

- 7) Which command is used to list only the distinct lines from a file?
 - ls

- distinct
- **uniq**
- unique

8) Which command is used to multiplex the output to the terminal and to another command?

- **Tee command**
- Mul command
- Multiplex command
- Cat command
-

9) Which is the special file representing the terminal?

- **/dev/tty**
- /dev/null
- /dev/term
- /dev/terminal

10) In vi command mode, what is the command to get into insert mode?

- **I or i**
- Esc
- K
- X

11) Which environment variable is used to search for commands?

- **PATH**
- HOME
- PS1
- PS2

12) User variable in shell can be

- **20 letters, digits or an underscore character**
- Any number of letters
- 25 letters, digits or an underscore character
- Any number of letters, digits or an underscore character

13) Which symbol allows to assign the output of a shell command to a variable?

- **`**
- =
- \$
- #

14) What is the output of \$ expr 5 * 2 ?

- 10
- 5 * 2
- **Syntax error**
- 25

15) The special variable containing the number of command line arguments is

- \$?
- \$1
- \$1
- \$#

16) If I am unable to read a file on the terminal using cat command, what should I check first? (Multiple Answers)

- my eyesight
- check if my screen is broken
- check for mode(permissions) on the file
- may be all the three

17) What does the command 'sleep 5' do?

- puts all the current running process to sleep for 5 minutes
- puts all the user processes (except kernel process) to sleep for 5 seconds
- puts all process to zombie state for 5 minutes
- puts the current process to sleep for 5 seconds

18) How do you move the cursor 5 characters ahead of current position ?

- lseek(fd, -5, SEEK_CUR)
- lseek(fd, 5, SEEK_CUR)
- lseek(SEEK_SET, 5, SEEK_CUR)
- move(fd, 5, SEEK_CUR)

19) A file has read permissions but is empty, what would happen if try to read from the file using read() system call?

- read() will crash the execution
- read() will throw an error but code will continue
- read() will read zero bytes
- read() will wait for someone to write into the file

20) ps command helps us in:

- displaying the list of processes
- launching a new process
- creating a new process
- killing a process

21) What happens if a parent process is terminated?

- all the child processes are admitted to Dinanath Anaath Ashram

- only the first created child is terminated
- all the child processes are terminated
- parent process cannot be terminated unless all the child processes are killed
- **some other process adopts the child processes**

22) Which of the following system call is used to handle a signal?

- **signal()**
- handle()
- catch()
- kill()

23) A thread exits once a process exits, because:

- threads are kache dhaage
- my life, my rules
- **threads are a part of the process**
- threads feel lonely

24) inter process communication is needed because:

- **synchronization & data transfer for many applications to run**
- each process needs to know which other process is online
- processes need to put their stories on instagram
- it's not needed, process will be efficient if they stay #SingleForever

25) The mechanism for transferring data between related processes is called:

- Tube
- cylinder
- duct
- **pipe**

26) When your car is halted on the road cause a minister's convoy has to pass. What kind of scheduling is this?

- **priority based scheduling**
- first come first serve
- bik gayi hai Gormint scheduling
- shortest remaining time

27) The IPC with proper demarcation of data is:

- Pipes

- Fifos
- message queue
- shared memory

28) Which would be the craziest form of communication after your partner blocks you on social media? - (Multiple Answers)

- send a message on google pay
- send a pigeon with your message
- go home as a delivery boy/girl to pass on the message
- use Linux IPCs

29) multi processes can read broadcasted data by:

- pipes
- fifos
- message queues
- shared memory

30) When there are only two trial rooms at a shopping mall, what kind of semaphore would fit well here

- counting semaphore with a count of 2
- binary semaphore with a count of 2
- counting semaphore with a count of 1
- forget trial rooms, buy from Amazon, apni dukaan

31) Memory protection for each process is accomplished using

- Base Register
- Limit register
- both Base Register & Limit Register
- Either Base Register & Limit Register

32) The address generated by the CPU is

- Physical address
- Logical address
- Virtual address
- logical address or virtual address

33) The address generated by the MMU is

- Physical address
- Logical address
- Virtual address
- None of the above

34) Loading a page into memory when it is needed is called

- Paging
- Demand paging
- On demand paging
- Loading

35) Which of the following tells git that your changes are ready to be included in the project.

- git init
- git done
- git commit
- git ready

36) In a bash script the number of command line arguments is stored in

- \$*
- \$\$
- \$?
- \$#

37) Which of these is not a system call?

- Malloc
- Kill
- Fork
- open

38) The ipc for maintaining boundaries automatically between data is

- Fifos
- Pipes
- message queues
- shared memory

39) How does the Linux terminal react when you enter a wrong command?

- The terminal says "choti bachi ho kya"
- The terminal kills itself in disbelief
- The terminal says "tumse na ho payega"
- The terminal displays the error & gives you back the prompt

40) Which of the following statement seems true about a directory?

- A folder is similar to a directory

- A directory can have read write execute permissions
- **All the options seem to be true**
- Technically directory only stores the addresses of the files & not exactly all the files

41) What would be the ideal way to copy 7 lines in vi editor

- Right click, select & copy
- Left click, select & copy
- **in command mode type 7yy**
- use cp command

42) Ideal way to write a command to print the lines that has the word "good" while ignoring the case.

- `grep -ignore "good"`
- `grep -i "good"`
- `grep -good "i"`
- `grep -i "*good*"`

43) If you start at `/home/johnny/jinny`, and you execute following commands: 1. `cd .` 2. `cd ../../` 3. `cd .` what would be the current working directory at the end?

- `/home/johnny`
- **`/home`**
- `/`
- `/home/johnny/jinny`

44) Which of the following files will not be displayed after executing the command `cat amb*`

- **`Ambuja_cements`**
- `amberpet`
- `amber_head`
- `amber_valley.txt`

45) Which signal terminates a process?

- `SIGSTOP`
- `SIGMA`
- `SINGHAM`
- **None of the options**

46) Which IPC do you think should be the fastest?

- Message Queues (can DM anyone privately)

- pipes (flow is better if pipes are clean)
- Shared Memory (sharing is caring)
- fifo (early to bed, early to rise)