OS & SP Recall Quiz

1) An Operating System is
   - facilitator
   - application
   - text Editor
   - government

2) Which command is used to know the current working directory?
   - pwd
   - cwd
   - ls
   - cd

3) Which command is used to rename a file?
   - mv
   - rename
   - cp
   - rnm

4) Which command is used to copy a file?
   - cmp
   - cpy
   - cp
   - copy

5) Which command helps to know about the details of a command?
   - man
   - date
   - cut
   - help

6) How do you redirect the error messages to a file error.txt?
   - > error.txt
   - < error.txt
   - 2> error.txt
   - >> error.txt

7) Which of the following metacharacter represents any character (except newline)
   - .
   - *
   - ?
   - +

8) In vi command mode, what is the command to copy 5 lines?
   - 5copy
   - 5yy
   - 5cpy
   - 5cp

9) _____ helps output of one process become input of other (most effective way).
   - >
   - <
   - >>
   - |

10) Which is the best way to search for data in a text file?
    - Search
    - Find
    - Look
    - Grep

11) Which is the first line in a shell script?
    - #!/bin/bash
    - #Hello World
    - #!/bash
    - #!/bin

12) In shell script, which symbol is used to denote a comment?
    - /*   */
    - //
    - #
    - %

13) Shell math can be performed with
    - Expr
    - [ ]
    - a and b
    - math

14) To execute a script file FILE1, how do you set the permissions?
    - Chmod +rw FILE1
    - Chmod +w FILE1
    - Chmod +r FILE1
    - Chmod +x FILE1

15) What is the output for the following code snippet?
      val=15
      $ echo "The cost of the item is val"

    - The cost of the item is 15
    - The cost of the item is $val
    - The cost of the item is val
    - The cost of the item is $15

16) Which special variable holds the exit status of the last executed command?
    - $?
    - $#
    - $!
    - #!

17) In an if conditional statement how do you check the condition?
    - Test command can be used
    - [condition]
    - a or b
    - expr

18) how do you compare numerical values in a if statement?
    - If test $n1 eq $n2
    - If [$n1 eq $n2]
    - If test $n1 = $n2
    - a or b

19) Which environment variable helps in identifying field separators?
    - IFS
    - PATH
    - HOME
    - PS

20) What are looping statement?
- While
- For
- Until
- All the above

21) What is the unique identification for every file in a hard disk?
- file descriptor
- inode number
- file pointer
- file identifier

22) Which is the flag for opening a file in Read-Write mode?
- O_READWRITE
- O_RDWRONLY
- "rw"
- O_RDWR

23) The stages of instruction pipelining are
- Fetch, decode, execute, memory read, write back
- Fetch, execute, decode, write back, memory read
- Decode, fetch, execute, memory read, write back
- Memory read, decode, execute, fetch, write back

24) What is NOT true about interrupts?
- Interrupts are caused by hardware
- Interrupt handler is executed
- Processor execution mode switches to protected/kernel mode
- Interrupts result in always aborting the application

25) What would the following code snippet do?
    creat("sample",0555);
- create a file called as sample with r-xr-xr-x permission
- create and open a file called as sample for reading only

- change the mode of the file called as sample to r-xr-xr-x
- create and open a file called as sample for reading & writing

26) A system call is NOT
   - A part of processor instruction set architecture
   - Enforces the processor to switch from user mode to kernel mode
   - The interface for the services of the OS
   - An application programming interface(API)

27) Which of the following is NOT a file management related system call
   - read()
   - Write()
   - fork()
   - close()

28) Which of the signals cannot be handled ?
   - SIGINT
   - SIGSTOP
   - SIGTERM
   - SIGCHLD

29) Which system call is used for waiting for a particular process?
   - wait()
   - hold()
   - waitpid()
   - stall()

30) What is shared and is common between parent & child?
   - data
   - open file descriptors
   - stack
   - all of the options

31) How is fifo different from pipes, with the context of IPC
   - fifo has a name
   - all the options are true

- fifo can be used for unrelated processes
- fifo can be created using commands too

32) Threads do not have the overhead of:
- all the options seem true
- having PID, PPID
- managing IPCS
- managing user & group IDs

33) The process of saving the state of one process/thread and restoring the state of another for execution is called
- Loading
- Context switching
- Dispatching
- Linking

34) If multi processes are reading from the same fifo sequentially, then:
- data will be shared
- all the data will be stored by the latest process
- fifo will not allow multi processes sequentially
- data once read will be deleted, and the new process only gets remaining data

35) File descriptors are _____ between threads of a process
- Private
- shared
- partially shared
- restricted

36) An IPC mechanism provides at least two operations.
- Write and delete a message
- Delete and receive a message
- Send and delete a message
- Receive and send a message

37) What are the models of IPC?
- Shared memory model
- Message passing

- Both A and B
- None

38) Which IPC mechanism is suitable for processes with parent-child relationship?
   - FIFO
   - Pipe
   - Shared memory
   - Message queue

39) Which IPC takes care of synchronization?
   - Message Queue
   - Shared Memory
   - Pipe
   - FIFO

40) POSIX stands for
   - Portable Operating System Interaction
   - Portable Operating System Interface
   - Preemptive Operating System Interface
   - Preemptive Operating Sleep Interface

41) All the static data is stored in
   - Stack
   - Heap
   - data segment
   - text segment

42) Which of the following command is used for remote connection:
   - Ssh
   - Send
   - Ipcs
   - write

43) The address generated by the CPU is
   - Physical address
   - Logical address
   - Virtual address

- Logical or Virtual address

44) The command used for checking connectivity and connection speed is
- Poke
- Test
- Check
- ping

45) The address generated by the MMU is
- Physical address
- Logical address
- Virtual address
- None of the above

46) Version control systems support tracking which kind of files?

- Text files, Word Documents
- Source code files
- Audio files, Images
- All of the options

47) GIT is a
- Centralized version control system
- Distributed version control system
- Integrated Development Environment
- Dubugging system

48) "Git init" command is used to _____
- To start git
- To initialize git
- To create or initialize a repository
- To initialize the project

49) Where is the project folder stored in git?
- .git folder
- .profile folder
- .repository folder
- .stage folder