OS QUIZ

1. What does the following command do?
   $ systemctl enable dhcpcd.service
   (a) Start dhcpcd service
   (b) Start the dhcpcd service on every boot
   (c) Start the dhcpcd service as system call
   (d) Add dhcpcd as a system control service

2. Let's say we have a machine with 8GB of RAM, then....
   (a) The size of swap must be less than 8 GB
   (b) The size of swap must be more than 8GB
   (c) Size of swap is preferred less than 8GB
   (d) Size of swap is preferred more than 8GB

3. Pick the odd one out...
   (a) Gnome
   (b) Cinnamon
   (c) Debian
   (d) Enlightenment

4. If the desktop manager is GDM(Gnome Desktop Manager), then what must be the Desktop Environment?
   (a) Gnome
   (b) Cinnamon
   (c) LXDe
   (d) XFCe

5. In which format file system does linux install?
   (a) ext4
   (b) fat32
   (c) fat16
   (d) ntfs

6. If we have an X86_64 linux kernel installed on my system, which executable will work?
   (a) 64 bit
   (b) 32 bit
   (c) 86 bit
   (d) None of the above

7. Which of these institutes have linux mirror?
   (a) IIT Delhi
   (b) IIT KGP
   (c) IIIT Hyderabad
   (d) IIT Kanpur

8. Which of these are true?
   (a) Windows 7 uses GPT for partition by default.
   (b) GPT can be used to partition more than 2TB of space.
   (c) MBR can be used to partition upto 2TB of space.
   (d) None of the above

9. What did he create? (Linus Torvals)
   (a) Linux Kernel
   (b) Git
   (c) Linux Mint
   (d) Arch Linux

10. Which of these OS are virus free?
    (a) UNIX
    (b) Linux
    (c) Windows
    (d) None of the above

11. Linux is which kind of Operating System?
    (a) Mutli Tasking
    (b) Multi Users
    (c) Mutli Process
    (d) None of the above

12. Pick the odd one out..
    (a) vi
    (b) nano
    (c) pico
    (d) eclipse

13. Which of these options resembles the image?
    (a) :(){ :|: & };:
    (b) #include <unistd.h> int main(void) { while(1) fork(); }
    (c) %0|%0
    (d)   None of the above

14. A man wants to upgrade a 32 bit machine of his. Knowing you are from
    IIIT H , he asks you what size of ram he should buy to add to his current configuration. Money is not
    constraint. He already has 2GB of RAM.
    (a) 2GB
    (b) 4GB
    (c) 8 GB
    (d) 16 GB

15. What size of file can be opened on a 4GB RAM system?
    (a) <4GB
    (b) >4GB
    (c) 8GB
    (d) None of the above

16. Who invented the first GUI in computers?
    (a) Apple
    (b) Microsoft
    (c) Xerox
    (d) IBM

17. What command do you use to create Linux file systems?
    (a) fdisk
    (b) mkfs
    (c) mount
    (d) fsck

18. Which of these files can be altered to change the boot menu order in grub?
    (a) /boot/grub/grub.cfg
    (b) /etc/grub.d/40_custom
    (c) /etc/grub.d/41_custom
    (d) /boot/grub/grubenv

19. Which of these can be used for tracking the library calls made by a program?
    (a) ltrace
    (b) strace
    (c) valgrind
    (d) None of the above

20. To give root permissions to a user, which file will you edit?
    (a) /etc/host.conf
    (b) /etc/sudoers
    (c) /usr/bin/users
    (d) /var/lib/AccountsService/users/<username>

21. Which of these commands can be used to check the processes running on the machine?
    (a) top
    (b) ps
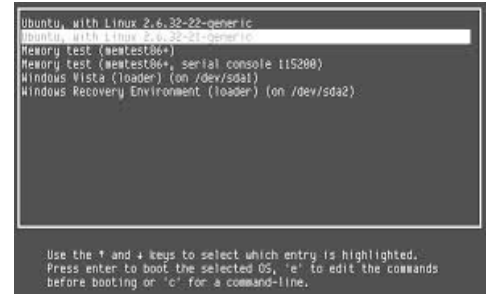   (c) pstree
    (d) who

22. Which process gets the pid 1?
    (a) kthreadd
    (b) watchdog
    (c) init
    (d) cpuset

23. Leave the odd one out, check all others..
    (a) read(...)
    (b) write(...)
    (c) mmap(...)
    (d) printf(...)

24. Where is the OS kernel stored on an android based smart phone?
    (a) HDD
    (b) SSD
    (c) Flash ROM
    (d) None of the above

25. Which of these instructions should be privileged?
    (a) Start/Stop daemons
    (b) Turn off interrupts
    (c) Signal process of other users
    (d) Change ownership of files

26. A CPU-scheduling algorithm determines an order for the execution of its scheduled processes. Given n processes to be scheduled on one processor, how many different schedules are possible?
    (a) n
    (b) n!
    (c) n(n-1)/2
    (d) log(n)

27. How many child processes are created including parent?
    int main{fork(); fork(); fork(); return 0;}
    (a) 16
    (b) 8
    (c) 15
    (d) 7

28. Which address of RAM is accessed first at the time of boot?
    (a) 0XFFFFFFFF
    (b) 0XFFFFFF00
    (c) 0x0FFFFFFF
    (d) 0XFFFFFFF0

29. If you are getting a mirror not found error while downloading something, which of these could be a problem?
    (a) You are behind a proxy server but did not configure your environment variables
    (b) You have set proxy.
    (c) Your internet connection is down.
    (d) None of the above

30. Suppose the cache is divided in 4 blocks. And the order of bringing in memory blocks is given as follows - 2 7 2 3 4 2 6 7 5. If Least Recently Used block is substituted if cache in full, what will the final memory blocks in cache?
    (a) 2 7 3 5
    (b) 7 3 5 6
    (c) 2 6 7 5
    (d) Cannot be determined