**QUESTION 1**

1. What is the letter based permission for 644?  (write is out using r,w,and x and use a \_ where there is no value - no spaces either run it all together)

rw\_r\_\_r\_\_

**QUESTION 2**

1. Unix/Linux is not just a kernel it is also a what?

philosophy

**QUESTION 3**

1. What does 'sudo' do?

|  |  |  |
| --- | --- | --- |
|  | B. | It temporarily elevates you to 'root' privilleges for the duration of a command or a short time increment. |

**QUESTION 4**

1. What kind of path is this?  /home/aplustudent/midterm-answers

**absolute path**

**QUESTION 5**

1. How do I send std out from one command as std in to another command (one 4 letter word)

**pipe**

**QUESTION 6**

1. Linux is an operating system

 False

**QUESTION 7**

1. What kind of editor is vi? (one word)

stream

**QUESTION 8**

1. What are the three minimum partitions and operating system requires?

|  |  |  |
| --- | --- | --- |
|  | b. | /, swap, /boot |

**QUESTION 9**

1. Filenames are case sensitive in Linux (T/F)

 True

**QUESTION 10**

1. Receiving standard in from cat /etc/passwd - what would be the syntax for cutting the fifth column (or field) and the : (colon) is the delimiter.

Type the part after cat /etc/passwd | (complete what goes here)

cut -d: -f5

**QUESTION 11**

1. Which of these directories in NOT part of the required directories in Linux?

|  |  |  |
| --- | --- | --- |
|  | c. | /opt |

**QUESTION 12**

1. Listen to this audio and type the Linux Command

[number2.m4a](https://blackboard.iit.edu/bbcswebdav/pid-283156-dt-content-rid-1330695_1/xid-1330695_1)

ls -la /etc/hosts

**QUESTION 13**

1. What are the 3 P's of linux problems?

|  |  |  |
| --- | --- | --- |
|  | C. | Path, Permission, dePendecies |

**QUESTION 14**

1. What character will redirect std out to a file (with destructive overwrite?)

>

**QUESTION 15**

1. What is the command to display the content of a file? (just the command)

cat

**QUESTION 16**

1. Name the 3 tenants of Unix Philosophy

|  |  |  |
| --- | --- | --- |
|  | a. | Portability, Everything is a File, and I/O is redirectable |

**QUESTION 17**

1. What is this   cumulative permission?  rw\_\_\_\_\_\_\_(just the numbers)

600

**QUESTION 18**

1. The Linux FileSystem is an upsidedown what?

tree

**QUESTION 19**

1. Given two directory trees -

/home/aplustudent/music/beethoven/emperor-concerto

and

/home/apluststudent/video/mccartney/wings/hands-accross-the-water

and your pwd is: /home/aplustudent/music/beethoven/emperor-concerto

and you type cd ../../../video/mccartney

what will you pwd be?

/home/apluststudent/video/mccartney

**QUESTION 20**

1. Who uses Linux?

|  |  |  |
| --- | --- | --- |
|  | c. | Everyone |

**QUESTION 21**

1. What is the default Ubuntu Desktop?

|  |  |  |
| --- | --- | --- |
|  | a. | Unity |

**QUESTION 22**

1. What is the command to create an empty file or update its timestamp? (just the commmand)

touch

**QUESTION 23**

1. This person is responsible for creating the C programming language (and because of that you now all have to take ITM 312...)

|  |  |  |
| --- | --- | --- |
|  | D. | Dennis Ritchie |

**QUESTION 24**

1. What is the correct order of the parameters for a commandline exectuable?

|  |  |  |
| --- | --- | --- |
|  | c. | command options arguments |

**QUESTION 25**

1. What are the two vi modes?

|  |  |  |
| --- | --- | --- |
|  | C. | Command Mode and Input Mode |

**QUESTION 26**

1. What is the vi command to save and quit and force quit?

:wq!

**QUESTION 27**

1. If you want to run a Linux operating system on top of your existing OS but do not want to "touch" the underlying operating system what kind of distribution do you want?

|  |  |  |
| --- | --- | --- |
|  | b. | Live |

**QUESTION 28**

1. How does the user interact with the kernel?

|  |  |  |
| --- | --- | --- |
|  | b. | Shell |

**QUESTION 29**

1. What kind of editor is nano?

screen oriented editor

**QUESTION 30**

1. (Assume all directories already exists - no trick questions)  
     
   If you pwd is /home/aplustudent/music/beethoven and you type cd ../../  what directory will your new pwd be?

/home/aplustudent

**QUESTION 31**

1. What is the ~ character a shortcut for?

d. the log files directory

**QUESTION 32**

1. Everything is Unix is a what ? (lowercase answer)

file

**QUESTION 33**

1. What is the absolute path to the directory to where the system logs are kept?

**/var/log**

**QUESTION 34**

1. What does the cat command do?

|  |  |  |
| --- | --- | --- |
|  | B. | displays the content of a file to std out (screen) |

**QUESTION 35**

1. Name the two predominant Linux distro families that most other Linux OSes descend from

|  |  |  |
| --- | --- | --- |
|  | a. | Fedora and Ubuntu |

**QUESTION 36**

1. This person started the GNU project and the FSF

|  |  |  |
| --- | --- | --- |
|  | A. | Richard Stallman |

**QUESTION 37**

1. What is the command used to list the content of a directory? (no options just the base command)

ls

**QUESTION 38**

1. Who invented vi?

Bill Joy

**QUESTION 39**

1. What is the cumulitive permission for rw\_rw\_r\_\_?  (just the numbers)

664

**QUESTION 40**

1. If you pwd is /  and you type ../ what will your directory be?

/

**QUESTION 41**

1. What is Standard In on your system?

|  |  |  |
| --- | --- | --- |
|  | b. | Keyboard |

**QUESTION 42**

1. With great privillege comes great what? (one word - think root)

responsibility

**QUESTION 43**

1. If a file has permission 000 - absolutely no one can access that file T/F

 False

**QUESTION 44**

1. What is the default Fedora Desktop?

|  |  |  |
| --- | --- | --- |
|  | b. | Gnome 3 |

**QUESTION 45**

1. What kind of path is this?  ../

relative path

**QUESTION 46**

1. What command and options are used to remove a directory with files in it (include the -f as well)

rm -rf

**QUESTION 47**

1. What command allows you to pipe "|" std out to another program's standard in and redirect a copy of the pipeline and that point in time?

c. tee

**QUESTION 48**

1. What is the Fedora commandline tool used for downloading and installing packages?

|  |  |  |
| --- | --- | --- |
|  | a. | apt-get |

**QUESTION 49**

1. What is your favorite color? (answer is blue)

blue

**QUESTION 50**

1. Which directory in Linux is used to store all installed softwares configuration files? (no need to add the slash just the 3 letter name)

etc

**QUESTION 51**

1. Listen to this audio and then type the Linux command:

[number1.m4a](https://blackboard.iit.edu/bbcswebdav/pid-283156-dt-content-rid-1330694_1/xid-1330694_1)

ls -l /etc/apache-conf

**QUESTION 52**

1. What is the highest level of that tree? ( not the word just the character)

/

**QUESTION 53**

1. Listen to this audio and type the Linux Command  
     
   [number3.m4a](https://blackboard.iit.edu/bbcswebdav/pid-283156-dt-content-rid-1330696_1/xid-1330696_1)

**ps** -ef | **grep firefox???**

**QUESTION 54**

1. What tool(s) can you use when you don't know the order of a commands options or how to use a command? (choose all that apply)
   1. man
   2. –help
   3. info

**QUESTION 55**

1. This person created Unix

|  |  |  |
| --- | --- | --- |
|  |  | Ken Thompson |

**QUESTION 56**

1. What is the command to delete a file? (just the commmand)

rm

**QUESTION 57**

1. When you execute a command how does the system know where it is located?

|  |  |  |
| --- | --- | --- |
|  | c. | system PATH |

**QUESTION 58**

1. What is the command to copy a file (no options just the base command)

cp

**QUESTION 59**

1. What command is used to read the content of a file one page at a time and can page up and down?

less

**QUESTION 60**

1. Who created the initial Linux Kernel?

|  |  |  |
| --- | --- | --- |
|  | C. | Linus Torvalds |

**QUESTION 61**

1. When downloading and ISO you can also download a checksum to make sure that the download payload has not been corrupted or interrupted. Based on the class notes and its own website - what is the hash algorithm that Fedora uses for its downloads?

|  |  |  |
| --- | --- | --- |
|  | d. | SHA256 |