[Updated Constantly]

HERE

Introduction to Linux I – Midterm Exam Answers

1. **Which command is used in order to view the manual page for a topic?**
   - help
   - doc
   - show
   - **man ***

2. **The basic form of a command line is:**
   - **command [options…] [arguments…] ***
   - command [arguments…] options
   - command arguments options
   - command [options…] arguments…

3. **A command can be: (choose three)**
   - A block
   - **A function ***
   - **A program built-in to the shell ***
   - **An alias ***
   - A configuration file
   - A variable

4. **Which of the following man page sections will provide an example of how a command is executed?**
   - The DESCRIPTION section
   - The NAME section
   - The FILES section
   - **The SYNOPSIS section ***

5. **The command man 5 passwd will:**
   - Display the first five lines of the man page for the passwd command.
   - Not work; you can't give a numeric argument to the man command.
   - Print the first five man pages that refer to the term passwd.
   - **Display the man page of Section 5 for passwd. ***

6. **Which character(s) cannot be placed in variable names?**
   - **Hyphen ("-") character ***
   - Numeric characters

- Underscore ("_") character
- Upper-case alpha characters
- Lower-case alpha characters

7. **Shell variables are used to:**
    - Reboot the system
    - Prevent users from logging in
    - Hide passwords
    - **Hold critical system information** *

8. **Local variables are:**
    - **Only available to the shell they are created in** *
    - Passed into other shells and commands
    - Are not a valid type of variable
    - Not used by shells at all

9. **Environment variables cannot be declared by which command?**
    - export
    - declare
    - **set** *
    - typeset

10. **The /usr/local/bin directory contains:**
    - Essential administrative commands
    - Nothing; it is not a valid directory
    - The most fundamental commands that are essential for the operating system to function
    - **Commands that have been compiled from local sources** *

11. **The key press combination that will request a running process terminate:**
    - **CTRL+c** *
    - CTRL+d
    - CTRL+z
    - CTRL+p

12. **A popular program for monitoring running processes in real-time is:**
    - watcher
    - mon
    - ghost
    - **top** *

13. **To send a signal to a set of processes with the same name, you can run:**
    - **killall** *
    - sigkill

- allkill
- grpkill

14. **Which of the following commands will stop all processes owned by the user bob? (choose two)**

- kill -u bob
- **pkill -u bob ***
- kill -l
- **killall -u bob ***

15. **The range defined inside of square brackets is based on the:**

- **ASCII text table ***
- Invalid question as ranges are not permitted
- ANSI text table
- Standard text table

16. **You can combine glob characters in a single pattern, for example: a??*[0-9].True or False?**

- **True ***
- False

17. **The Is command can list the contents of only one directory at a time.True or False?**

- True
- **False ***

18. **To perform a "long listing" to show file details, use which of the following commands:**

- ls -L
- ls -D
- ll
- **ls -l ***

19. **The mv command can be used to move more than one file at a time.True or False?**

- **True ***
- False

20. **Which option(s) for the rm command can be used to delete directories that contain files? (choose two)**

- **-r ***
- **-R ***
- -D
- -A

21. **Which character at the beginning of a long listing indicates a regular file?**

- c

- d
- l
- **–**

22. **To decompress the archive example.gz, use the following command:**
   - gunzip -x example.gz
   - **gunzip example.gz ***
   - gzip -x example.gz
   - gzip -u example.gz

23. **By default, tar will attempt to extract an archive…**
   - to the specified directory.
   - **into the working directory. ***
   - into the user's home directory.
   - into the archive's parent directory.

24. **Which of the following options puts the cpio command into copy-in mode?**
   - -o
   - -u
   - -v
   - **-i ***

25. **The dd command can be used to create large files the can be used as swap files.True or False?**
   - **True ***
   - False

26. **Which of the following is not a valid argument for the dd command?**
   - if
   - count
   - **in ***
   - bs
   - of

27. **Which of the following are advantages of using the locate command?**
   - It can search by file attribute types
   - It pages the results
   - Its results are always the most up to date
   - **It is quicker than the find command ***

28. **Many commands that read text files will also read from this stream:**
   - redirect
   - **stdin ***

- pipe
- input

29. **If you want to overwrite a file by redirecting the output of a command, you can use:**

- &
- }
- **>**
- |

30. **To redirect the errors that are output by a command, you can use:**

- 2@
- 2&
- **2> ***
- @

31. **Which two symbols can effectively redirect stdin to a command? (choose two)**

- **<**
- >
- **|**
- !

32. **To send the normal and error output of a command to a single file, you can use:**

- 2>
- >
- 1>
- **&> ***

33. **The head -n -1 readme.txt command will:**

- **Display all but the last line of readme.txt ***
- Number the lines of readme.txt
- Show the first character of every line of readme.txt
- Display the first line of readme.txt

34. **Why would you press CTRL+C when executing tail?**

- To capture the output into a file
- **To stop tail from following a file ***
- To complete the processing of a file
- To get tail to copy the text it is outputting

35. **Which command merges two files like related tables in a database?**

- sql
- **join ***
- query

- paste

36. **Which command will remove consecutive duplicate lines from a file?**
  - unique
  - **uniq ***
  - dup
  - dedup

37. **The _____ command provides many options for formatting a file for printing.**
  - **pr ***
  - format
  - header
  - print

38. **Which regular expression character matches zero or more of the previous character?**
  - .
  - +
  - *****
  - ?

39. **Which of the following regular expression characters is an extended regular expression character?**
  - **+**
  - .
  - *
  - $

40. **The regular expression a* is equivalent to:**
  - a{0,1}
  - a{1,}
  - a{1}
  - **a{0,} ***

41. **To use regular expression characters to match themselves, you cannot:**
  - Use the fgrep command
  - Put the character in the square brackets
  - **Use the slash in front of the character ***
  - Use the backslash in front of the character

42. **What is NOT a purpose of using parentheses around parts of a regular expression?**
  - **They can be used to change the order that the pattern is evaluating ***
  - They can be used to refer back to what was matched
  - They can be used to make alternation more efficient

- They can be used to group characters for repetition

43. **To navigate to the end of the line in vi command mode, you can press:**

- ^
- *
- **$**
- #

44. **To search forward from your cursor in your vi document in command mode, you can type __ followed by the pattern to search for.**

-
- |
- **/**
- ?

45. **If you are in vi command mode and want to begin inserting text at the end of the line, you can type:**

- I
- o
- **A** *
- O

46. **If you want to move a character to the right in vi command mode, you can press the right arrow key or:**

- j
- k
- h
- **l** *

47. **If you want to move up a line in vi command mode, you can press the up arrow key or:**

- l
- **k** *
- h
- j

48. **Which permission is necessary on a directory in order for a user to use the cd command to change that directory?**

- **Execute** *
- None
- Write
- Read

49. **The setuid permission on a file:**

- Causes the file to run under the user's identity
- **Causes the file to run under the owner's identity** *
- Causes the file to never run as root
- Causes the file to always run as root

50. **The command, chmod 1777 /data will:**
   - Make the /data directory a setgid directory
   - **Make the /data directory a sticky bit directory** *
   - Make the /data directory a setuid directory
   - Remove all special permissions

51. **The command, chmod 2777 /data will:**
   - Remove all special permissions
   - Make the /data directory a setuid directory
   - Make the /data directory a sticky bit directory
   - **Make the /data directory a setgid directory** *

52. **Which are valid link types in Linux? (choose two)**
   - **Soft links** *
   - Stable links
   - **Hard links** *
   - Filesystem links

53. **Which is true about hard links?**
   - They can only be created by the root user
   - **They share inodes** *
   - They are created with the ln -s command
   - They can be made to directories

54. **Which value represents the inode number in the following output of the ls -li command: 87589 -rw-r–r–. 2 root root 83 Mar 4 22:45 myhosts**
   - **87589** *
   - 22:45
   - 2
   - 83

55. **The FHS sets which standard?**
   - Which services should be installed
   - Which partitions should be created
   - **Which directories should be used to hold specific files** *
   - Which filesystem types should be used

56. **The location of users' default shells is stored in the _____ file.**

- /etc/group
- /etc/gshadow
- **/etc/passwd ***
- /etc/shadow

57. **Long command options are preceded by which two characters?**

- **
- ||
- **—**
- &&

58. **Which two characters do you use to tell the command that you are finished providing options and that the remaining data on the command line is arguments?**

- **
- **—**
- ||
- &&

59. **To see a list of commands that are available while viewing a man page, you can type the __ character.**

- **h ***
- g
- c
- w

60. **System Administration man pages are typically located in section ___.**

- 6
- 9
- **8 ***
- 7

61. **What option to the kill command will list the signals for the system?**

- -r
- -9
- **-l ***
- -list

62. **Which glob character matches "exactly one character"?**

- *
- .
- [
- **?**

63. **Which glob character matches "zero or more characters"?**

   - .
   - ?
   - [
   - *****

64. **Which two characters match "a single character from a set of specified characters"?**

   - **[]**
   - ??
   - ..
   - **

65. **Which option to the find command will search by user owner?**

   - -person
   - **-user ***
   - -owner
   - -uowner

66. **Which type of link can be made to directories, hard or soft?**

   - **soft ***
   - hard

67. **Which type of link is easier to visually "see", hard or soft?**

   - hard
   - **soft ***

68. **Which type of link is indistinguishable by programs from regular files, hard or soft?**

   - **hard ***
   - soft

69. **Which directory is used to store temporary files?**

   - /etc
   - **/tmp ***
   - /temp
   - /

70. **Which directory is used for the home directory of the root user?**

   - /home/root
   - /
   - /var
   - **/root ***