CIS 90 - Fall 2012 - PRACTICE TEST 1 - 30 points

Honor Code:
This is a practice test and you may work with others and use the forum. However on the real test you must work alone.

Name: _____

Practice downloading and emailing the completed test to yourself as an attachment. On the real test you will email your filled-in test to the instructor. Make sure you can read the answers on the test after you have emailed it as an attachment.

Note to instructor:
  Email to students for Q14
  Make Sun-Hwa modifications

Part 1 - Flashcards questions (1 point each)

[Q1] What command shows the name of the computer you are using?

[A1] _____

[Q2] In what file are all the user accounts stored?

[A2] _____

[Q3] How do you get out of the input mode of mail?

[A3] _____

[Q4] UNIX directories are like phone books. Instead of names and phone numbers they contain?

[A4] _____

[Q5] What type of file is */bin/mail*? (regular, symbolic link, special or directory)

[A5] _____

Part 2 – Sun-Hwa questions (1 point each)

From Opus, login to Sun-Hwa as follows: **ssh cislab\\\$LOGNAME@sun-hwa**

[Q6] On Sun-Hwa, what is the value your PS1 variable was set to?

[A6] _____

[Q7] On Sun-Hwa, change to the */var/u* directory and keep descending into sub-directories until you can't go down any farther. There you will find some regular files. Which of these files contains exactly 8 words?

[A7] _____

[Q8] On Sun-Hwa, determine which of the **jin** and **sayid** commands is on your path. For the one that is on your path, what is the modification time & date of the <u>directory</u> where it resides?

[A8] _____

[Q9] On Sun-Hwa, there is a file named *passwd* which resides in the */etc* directory. What is the absolute pathname for this file?

[A9] _____

Log out of Sun-Hwa so that you are back on Opus again.

Part 3 – Use P10-Hugo to answers the following questions (1 point each)

From Opus, login to P10-Hugo as follows: **ssh cis90@p10-hugo**

[Q10] On P10-Hugo, what is the name of the biggest file in */usr/bin*?

[A10] _____

[Q11] On P10-Hugo, when the shell processes a **file /etc/apm/*** command, how many arguments are provided to the **file** command when it runs?

[A11] _____

[Q12] On P10-Hugo, what is the absolute pathname of the <u>directory</u> where the **zerofree** command resides?

[A12] _____

[Q13] What command option directs the **diff** command to show files side by side in two columns? Verify this by giving it *letter1* and *letter2* files as arguments.

[A13] _____

Log out of P10-Hugo so that you are back on Opus again.

Part 4 – Use Opus to verify your answers to the following questions (1 point each)

[Q14] Read your email on Opus. What is Benji's favorite game?

[A14] _____

[Q15] Calculate: 12 * (9^4 + sqrt(289)) /32 - 454

and email the answer to **rsimms** using the **mail** command.

[Q16] Does the **echo** command get its input from the command line, the keyboard or the operating system?

[A16] _____

[Q17] Starting in */u* and descending down to the deepest sub-folder, what is name of the file whose inode is 394283?

[A17] _____

[Q18] For your Opus account, which field (i.e. first, second, third, ... etc.) in */etc/passwd* matches the output of **id −u**?

[A18] _____

[Q19] What is the last line of the */usr/share/doc/pango-1.28.1/NEWS* file?

[A19] _____

[Q20] From your home directory, using a <u>relative</u> pathname with a single filename expansion character, what command would you use to classify all files in your Shakespeare directory to check if they are text or binary files?

[A20] _____

[Q21] Of all the files represented by *usr/share/doc/*/NEWS*, which is the largest?

[A21] _____

[Q22] Of all the files represented by *usr/share/doc/*/AUTHORS*, which has a modification date of Apr 2, 2009?

[A22] _____

[Q23] Of the regular files in the */home/cis90/depot/filetypes* directory, which is a POSIX shell script?

[A23] _____

[Q24] With the following command line, how many options are being specified?

```
ls -lid -St /boot Poems/Yeats/*
```

[A24] _____

[Q25] With the following command line, how many arguments are being specified?

```
type /usr/bin/pi[sn]*
```

[A25] _____

[Q26] What command would do a long listing of */bin* files whose names begin with a h or g?

[A26] _____

[Q27] Using only a long listing, what basic file type is */bin/mail*?

[A27] _____

[Q28] How many lines are in */etc/yum.conf* (the yum configuration file)?

[A28] _____

[Q29] Which <u>distribution</u> of Linux is being run on Opus?

[A29] _____

[Q30] How many accounts (lines) are there in the */etc/passwd* file?

[A30] _____

Extra credit

[Q31] On Sun-Hwa, the **uname** command has been compromised by forces on the island! What single command can you issue to fix this annoying behavior so you don't have to type name of the command backwards for it to work?

[A31] _____

[Q32] What command will make a prompt to show the <u>current</u> time, a space, a $ and a space, using no more than 11 keystrokes?

e.g. At 9:03AM the prompt would be: `09:03:00 $`

[A32] _____

[Q33] On Sun-Hwa, which shell program will be started for user kate (uid=1236) when that user logs into Sun-Hwa?

[A33] _____