CIS 90 - Fall 2013 - 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: _____

Instructions:
Download and save this test to your computer. Fill out the form using **Adobe Reader**, save it and email it as an attachment to **risimms@cabrillo.edu** using your regular (non-Opus) email.

Don't fill it out in your browser

Don't fill it out with MAC Preview

Please verify you actually sent a non-blank test
with complete answers to be graded!

Note to instructor:
  Email to students for Q15
  Make Sun-Hwa P1 modifications

Part 1 - Flashcards questions (1 point each)

[Q1] What command shows the other users logged in to the computer?

[A1] _____

[Q2] What environment variable is used by the shell to determine which directories to search when locating a command?

[A2] _____

[Q3] What command can you use to "chat" with another user?

[A3] _____

[Q4] What command will show a hex dump of a binary data file?

[A4] _____

[Q5] Is *../guest/Poems* a relative or absolute pathname?

[A5] _____

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

From Opus, login to Sun-Hwa as follows: **ssh cislab\\$LOGNAME@sun-hwa** and use your original Opus password.

[Q6] On Sun-Hwa, regarding the shell prompt, what is the text string printed by the shell to prompt you for a command?

[A6] _____

[Q7] On Sun-Hwa, what is the value of the PS1 variable?

[A7] _____

[Q8] On Sun-Hwa, determine which of the **jin** and **sayid** commands is on your path today. What is the inode number for the one that is on your path?

[A8] _____

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

[A9] _____

[Q10] On Sun-Hwa, what is the name of the file in */etc whose size is 1634 bytes*?

[A10] _____

[Q11] On Sun-Hwa, when the shell processes a **ls /etc/ssh/*pub** command, how many arguments are provided to the **ls** command when it runs?

[A11] _____

[Q12] On Sun-Hwa, what is the absolute pathname of the <u>directory</u> where the **zic** command resides?

[A12] _____

[Q13] What <u>option</u> directs the **diff** command to just output version information and exit?

[A13] _____

[Q14] On Sun-Hwa, change to the */etc/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 13 words?

[A14] _____

exit from Sun-Hwa back to Opus again

Part 3 - Opus questions (1 point each)

[Q15] Read your email on Opus. What is Benji's favorite food?

[A15] _____

[Q16] From your home directory, using a relative pathname and a single filename expansion metacharacter, what command would do a <u>long listing</u>, sorted by modification date, of all *uhistory* files belonging to students enrolled in CIS 90?

[A16] _____

[Q17] Starting in */u* and descending down to the deepest sub-folder, what is name of the file whose inode is 394148?

[A17] _____

[Q18] Find the line in */etc/passwd* for your account. Each field on that line is delimited by a colon (:). Which field (i.e. first, second, third, ... etc.) matches the output of **id –g**?

[A18] _____

[Q19] Find where the **cat** command resides on your path. What is the last modification date of this command file?

[A19] _____

[Q20] Which files in the */home/cis90/depot/filetypes* directory on Opus are GIF files?

[A20] _____

[Q21] What program printed the error message below:

```
/home/cis90/simben $ ls bogus
ls: cannot access bogus: No such file or directory
```

[A21] _____

[Q22] Of all the files represented by */usr/share/doc/*/AUTHORS*, which has a modification date of May 6, 2010?

[A22] _____

[Q23] When the **stat /usr/bin/pin*** command is issued on Opus, what is the second argument the shell passes to the **stat** command to process?

[A23] _____

[Q24] Determine the terminal device being used for your login session. What is the relative path from your home directory to this device file?

[A24] _____

[Q25] Calculate: 2*(11^7+sqrt(289))-(38^5-9100*4430)-52118

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

[Q26] Looking at the who output below, where did the user rsimms on /dev/pts/2 log in from?

```
/home/cis90/simben $ who
wiltaj192 pts/0       2013-03-09 11:13 (c-71-198-191-152.hsd1.ca.comcast.net)
rsimms    pts/2       2013-03-06 20:35 (monitor.cislab.net)
drybry192 pts/4       2013-03-09 10:16 (c-76-103-155-46.hsd1.ca.comcast.net)
drybry192 pts/7       2013-03-09 10:25 (c-76-103-155-46.hsd1.ca.comcast.net)
rsimms    pts/8       2013-03-09 12:15 (50-0-68-177.dsl.dynamic.fusionbroadband.com)
rsimms    pts/11      2013-03-09 12:15 (50-0-68-177.dsl.dynamic.fusionbroadband.com)
rsimms    pts/12      2013-03-09 12:16 (50-0-68-177.dsl.dynamic.fusionbroadband.com)
rsimms    pts/13      2013-03-09 12:17 (50-0-68-177.dsl.dynamic.fusionbroadband.com)
simben90  pts/14      2013-03-09 12:43 (50-0-68-177.dsl.dynamic.fusionbroadband.com)
rsimms    pts/15      2013-03-09 12:43 (50-0-68-177.dsl.dynamic.fusionbroadband.com)
braril90  pts/16      2013-03-09 16:08 (108.239.182.216)
paljay90  pts/17      2013-03-09 16:11 (108-208-235-57.lightspeed.mtryca.sbcglobal.net)
wiltaj192 pts/18      2013-03-09 15:11 (c-71-198-191-152.hsd1.ca.comcast.net)
/home/cis90/simben $
```

[A26] _____

[Q27] What is the inode number of the file */bin/view* is linked to?

[A27] _____

[Q28] How many lines are in */etc/httpd/conf/httpd.conf* (the Apache web server configuration file)?

[A28] _____

[Q29] What is the name of the kernel being run on Opus?

[A29] _____

[Q30] How many words total are in all your Yeats poem files?

[A30] _____

Extra credit

[Q31] Back on <u>Sun-Hwa</u>, the **tty** 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] Of these commands: **uname, lspci, ls**, **git**, **uname** and **man**, which did Linus Torvalds work on?

[A32] _____

[Q33] On <u>Sun-Hwa</u>, which shell program will be started for user hugo (uid=1237) when that user logs into Sun-Hwa?

[A33] _____