**MIP 280A4: Microbial Sequence Analysis**

**Command-line computing, In-class exercise questions**

1. What does the abbreviation pwd stand for? (1 pt)
2. What is *your* pwd when you login to thoth01? (1 pt)
3. What are two reasons that the pwd is important? (1 pt)
4. Are the following paths absolute paths or relative paths? (1 pt each)
   1. /home/mdstengl/a\_directory
   2. ~/a\_directory
   3. a\_directory
   4. ../a\_directory
   5. /home/mdstengl/a\_directory/..
5. Use absolute and relative paths to change directory (1 pt):
6. How does the -l option (letter l not #1) change the output of the ls command (1 pt):
7. How does the -h option change the output of the ls command (1 pt):
8. Describe the combined impact of the -lrth options on the ls command (1 pt):

For the following questions, provide answer and the command you used to get the answer

1. Use a command that uses an absolute path to determine the secret message in /tmp/message\_1.txt (1 pt)
2. Use a command that uses a relative path to determine the secret message in /tmp/message\_2.txt (1 pt)
3. What text is on the 39th line of /etc/update-motd.d/00-header ? (1 pt)
4. Match the shell command with its function (1 pt each)

cat

cd

cp

echo

grep

head

less

ls

man

mkdir

mv

pwd

rm

rmdir

tail

Search for a pattern in the input

Output the first lines of a file

Display the manual page for a shell command

Copy files or directories

Output your present working directory

Change your present working directory

Move or rename files or directories

Pages through a file

Output the contents of a file or files

Create a new directory

List the contents of a directory

Output some text

Output the last lines of a file

Remove a file or directory

Remove an empty directory

1. What is the difference between the > and >> output redirection operators? (1 pt)
2. What command did you run to capture all of the files in /usr/bin on thoth01 that have 2-character names in a new file in your home directory named 2\_char\_commands.txt? (1 pt)