- 1. What is a hard link?
 - a. Creates a separate virtual file that contains information about the original file and where to locate it
- 2. What is a symbolic link?
 - a. A physical file that points to another file somewhere in the virtual directory structure.
- 3. List three characteristics of a hard link.
 - a. Physically the same as the original file
 - b. Shares the same inode number of the original file
 - c. No parameter is needed on the In command
- 4. List three characteristics of a symbolic link.
 - a. The two symbolically linked together files do not share the same contents
 - b. Has a different inode number from the original data
 - c. Followed by a —> symbol in the \$ In command listing
- 5. What does the history command do?
 - a. The bash shell keeps track of the commands you have used
 - b. You can recall and reuse the last command in your history list
 - c. You can force the command history to be written to the .bash_history file before leaving a shell session
- 6. List the function of the tail command.
 - a. Displays the last lines in a file (the file's "tail")
 - i. By default, it shows the last 10 lines in the file
- 7. List the function of the head command.
 - a. Displays a file's first group of lines (the file's "head")
 - i. By default, it displays the first 10 lines of text
- 8. How would you find the first 14 lines of a file?
 - a. \$ head -14 [file_name]
- 9. What is the difference between 'searching' and 'sorting'?
 - a. Searching finds files while sorting organizes them
- 10. What is a process?
 - a. A running program

- 11. How do you find running processes on the system?
 - a. By using the \$ ps command
- 12. How would you kill a running process with the PID of 1325?
 - a. # kill 1325
- 13. What does it mean to 'compress' data?
 - a. Encode information using fewer bits than the original representation
- 14. What is the difference between copy(cp) and move(mv)?
 - a. Copy keeps the original file while move does not
- 15. What does it mean to 'archive' a file or archive data?
 - a. To store files/data that are no longer actively used for long-time retention