Evaluation: 42 Ouestions

Name:

Important Instructions

- 1. Read all instructions and both sides of all pages.
- 2. Manage your time when answering questions on this test. Answer the questions you know, first.

(Office use only: 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42)

- 1. What is the output of this shell command line in an empty directory? echo *
- † a. *
 - b. an error message from **echo** saying * does not exist
 - c. no output
 - d. . .
 - e. .
- Which command line below does not show any lines from inside the file out?
 - † a. wc out
 - b. head -99 out
 - c. tail out
 - d. sort -n out
 - e. more out
- 3. What can you do to get back (redo) the last command you typed to the bash (Linux) shell?
- † **a**. Use the "UpArrow" key.
 - b. Use the "PageUp" key.
 - c. Type [ALT]-[F2]
 - d. Type [CONTROL]-[ALT]-[DEL]
 - e. Type [CONTROL]-[BACKSPACE]
- 4. What command shows all the lines in file **out** that contain the string **foo**?
 - † a. grep <out foo
 - b. grep out foo
 - c. cat out > grep foo
 - d. grep out foo | cat
 - e. grep foo >out
- 5. Which command sequence outputs inode/filename pairs for names in the current directory, sorted by inode number?
- † a. ls -ai | sort -n
 - b. sort -n | ls -ai
 - c. ls -i * > sort -n
 - d. ls -node * > sort -n
 - e. ls ./* | sort -node

- 6. What is in the file **bar** after this command sequence:

 - echo hi >x ; echo ho >x ; mv x y >bar † a. nothing - empty fi le - no data
 - - b. hi followed by ho
 - c. hi
 - d. ho
 - e. no such fi le (nonexistent)
- 7. How many lines are in the file **bar** after this command sequence:
 - echo hi >x ; echo ho >>x ; cat x x >bar
 - † a. 4
 - b. 6
 - c. 2
 - d. 1
 - e. nothing empty fi le no data
- 8. Which command line lists all possible utilities available for compiling programs?
- † a. apropos compile
 - b. man compile
 - c. grep compile /etc/*
 - d. grep /etc/* compile
 - e. man * | grep compile
- 9. Which of the command lines below can generate a non-empty file?
- †a. ls -ls file >file
 - b. tr a b <file >file
 - c. awk '{print \$1}' file >file
 - d. touch file >file
 - e. uniq file >file
- 10. In the output of the command **ls** -a, a dot that begins a name signifies what?
 - † a. A name that is hidden.
 - b. The parent directory.
 - c. The current directory.
 - d. A current fi le.
 - e. A name with an unprintable character.
- 11. Which command below sorts *only* this fi ve-character fi le name containing a special character (and no others): xx?xx
- †a. sort "xx?xx"
 - b. sort xx?xx
 - c. sort xx/?xx
 - d. sort ''xx?xx''
 - e. sort ""xx?xx""

12. Which command below removes *only* this fi ve-character fi le name containing a special character (and no others): yy?yy

- †a. rm yy\?yy
 - b. rm yy/?yy
 - c. rm yy\\?yy
 - d. rm yy//?yy
 - e. rm yy?yy

13. If you type the command **xload**

which of the following key sequences will interrupt it and take you immediately back to the command prompt?

- †a. [CTRL-C]
 - b. [CTRL-D]
 - c. [CTRL-L]
 - d. [CTRL-U]
 - e. [CTRL-R]

14. If you type the command tr a b

which of the following key sequences will send an EOF and take you immediately back to the command prompt?

- †a. [CTRL-D]
 - b. [CTRL-C]
 - c. [CTRL-L]
 - d. [CTRL-U]
 - e. [CTRL-R]
- 15. If I am in my home directory named /home/ian and mt is an empty sub-directory, what is true after this command line:

- † a. the directory mt is still empty
 - b. the directory mt now has a fi le named dog in it
 - c. the directory \mathbf{mt} now contains two fi les
 - d. there is a second copy of the file named who in the file dog
 - e. the command fails because the path ./mt/../cat does not exist
- 16. How many command arguments does the shell pass to this **echo** command: **echo** 'It's a bird! It's a plane!'
 - † a. Four arguments.
 - b. Five arguments.
 - c. One argument.
 - d. Two arguments.
 - e. Three arguments.

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17. How many arguments does the shell pass to this **echo** command:

echo " 1 2 " three ' 4 ' five"6"

- † **a**. Four arguments.
 - b. Three arguments.
 - c. Five arguments.
 - d. One argument.
 - e. Nine arguments.
- 18. Which of the following is true, given this long directory listing from 1s: drwxr-x-x 456 ian user 123 May 30 12:35 dir

† a. The number 123 is the size in bytes of this directory.

- b. The number 123 is the count of links (names) this directory has.
- c. The number 456 is the inode number of this directory.
- d. The number 456 is the octal permissions of this directory.
- e. The number 456 is the size of this directory.
- 19. Which of these command sequences will make fi le **foo** contain all of the content of fi le **a** followed by all of the content of fi le **b**?
- †a. cat a >foo; cat b >>foo
 - b. cp a >foo; cp b >>foo
 - c. cp a b >foo
 - d. mv a b >foo
 - e. echo a b >foo
- 20. If my current directory is **/bin**, which of these pathnames is equivalent to the file name **/bin/ls**?
- † a. ../../bin/ls
 - b. ../bin/ls/.
 - c. ./bin/ls
 - d. ls/.
 - e. /root/bin/ls
- 21. What is the output of this successful command sequence?

- †a./tmp
 - b. /tmp/foo
 - c. /tmp/bar
 - d. /tmp/foo/bar
 - e. /bar
- 22. Which of the following pathnames always leads to the same file named: /etc/passwd?
- †a. /etc/../etc/passwd
 - b. /etc/./etc/../passwd
 - c. /etc/passwd/.
 - d. ./etc/passwd
 - e. ../etc/passwd

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45 minutes

23. How many arguments and options are there to the command:

ls -ls /cat

- † **a**. Two command line arguments, one of which contains two bundled options.
- b. Two arguments, one of which is a single option and the other is a pathname.
- c. A three-letter fi le name and a /cat switch option argument.
- d. Two arguments, no options.
- e. Two options, no arguments.
- 24. How can you ask the **bash** (Linux) shell to complete commands or fi le names for you?
 - † a. You can type the first part of the command or fi le name and press the TAB
 - b. You can type the first part of the command or file name and press the **ALT** key.
 - c. Push key **F1** and the system will present a menu of commands.
 - d. Type [CONTROL]-[D] and the shell will present a menu of commands.
 - e. Type [CONTROL]-[C] and the shell will present a menu of commands.
- 25. Which command below is the best way to find a line containing an asterisk (*) in the fi le named **foo**?
 - †a. grep '*' <foo
 - b. grep * foo
 - c. grep foo "*"
 - d. grep <foo [*]
 - e. grep ./* foo
- 26. When doing an ls -a, the output pathname that is a double dot (...) signifies what?
 - † a. The parent directory.
 - b. A fi le or directory with double links.
 - c. A hidden fi le.
 - d. The current directory.
 - e. The root directory.
- 27. What command can you use to remove a directory that isn't empty?
 - †a. rm -r dir
 - b. del -r dir
 - c. rmdir -r dir
 - d. deldir -r dir
 - e. mv -r dir

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28. Which command sequence below outputs only lines 10-15 of the 16-line fi le

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\dagger a head -15 hex | tail -6
 b. tail -16 hex
                    head -10
 c. head -16 hex | tail -5 hex
 d. head -10 hex | tail -15 hex
 e. tail -10 hex | head -16 hex
```

29. If fi le **nine** contains nine lines, each of which is the one-digit line number of the line in the fi le (1 through 9), what is the output of this command:

```
sort nine nine | tail -3 | head -1
```

- † a. 9
- b. 8
- c. 7
- d. 7 7 7

named **hex**?

- e. 1 1 1
- 30. Which of the following shell command lines displays all the names in the current directory that are exactly three digits long (and no others)?
 - † a. echo [0-9][0-9][0-9]
 - b. echo [1-3][1-3][1-3]
 - c. echo [3][3][3]
 - d. echo [?][?][?]
 - e. echo ???
- 31. If fi le x contains ten lines, and fi le y contains twenty lines, then how many lines are in fi le cat after this sequence of bash shell commands:

- † a. 40
 - b. 45
 - c. 50
 - d. 60
 - e. no lines (empty fi le)
- 32. If fi le ten contains ten lines, and fi le twenty contains twenty lines, then how many lines are output by this command: cat twenty | sort ten
- † a. 10
 - b. 20
 - c. 30
 - d. 60
 - e. no lines (no output)

45 minutes

- 33. If directory foo contains only these three three-character file names: .11, .12, ..., then what is the output of the following bash shell command line: echo foo/???
 - † a. foo/???
 - b. foo/.11 foo/.12 foo/...
 - c. foo/.11 foo/.12
 - d. foo/...
 - e. no output
- 34. If your PATH variable contains /bin:/usr/bin, what is the output of this bash shell command line? echo '\$PATH'
 - † a. \$PATH
 - b. /bin:/usr/bin
 - c. 'SPATH'
 - d. /bin
 - e. '/bin'
- 35. What appears on your screen after this **bash** shell command line?

- † **a**. no output
 - b. 1 1 2
 - c. 1 1 3
 - d. ls
 - e. hi
- 36. In an empty directory, how many arguments are passed to the **rm** command in this **bash** command line?

date >a1 ; touch a2 ba ca >all ; rm a*

- † a. 3
 - b. **2**
- c. **1**
- d. **4**
- e. none
- 37. What is the correct syntax to redirect both standard output and standard error into the same output file?
 - † a. ls -1 >foo 2>&1
 - b. ls -1 2>&1 >foo
 - c. ls -1 >foo 2>\$1
 - d. ls -1 2>\$1 >foo
 - e. ls -1 >foo 2>foo

- 38. In an empty directory, what is in fi le **count** after this **bash** command line?

 1s ??? | wc -w >count
- † a. 0
 - b. **1**
 - c. 1 1 1
 - d. 1 1 2
 - e. no output (empty fi le)
- 39. What text is output by this **bash** shell command sequence:

- † a. cow
- b. **dog**
- c. foo
- d. cow followed by dog
- e. dog followed by cow
- 40. In an empty directory, what appears on your screen after this **bash** command line? **1s** 2>/dev/null nosuchfile
- † a. no output
 - b. nosuchfile
 - c. ls: nosuchfile: No such file or directory
 - d. ls: /dev/null: No such file or directory
- e.

- 41. In an empty directory, how many words are in fi le out after this bash shell command line? touch 1 2 3 2 1; 1s >out
- † a. 4
 - b. **5**
 - c. 6
 - d. 3
 - e. no output (empty fi le)
- 42. What is in fi le out after running this bash shell command line?

- † a. 2 3 3 0
- b. **2** 3
- c. 2 3 0
- d. 2 3 >out 3 0
- e. no output (empty fi le)

Answer Key - DAT 2330 - Ian Allen - Winter 2004 - DAT 2330 Test #1 - Unix - 15%

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1.	a
2.	а
3.	a
_	

42. a

4. a 5. a

Count of a: 42 100%

6. a 7. a

With 5 choices: 42

8. a 9. a

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27

10. a

28 29 30 31 32 33 34 35

11. a 12. a

36 37 38 39 40 41 42

13. a 14. a Macro .cmd splits: 17 Macro .ans splits: 0

15. a

16. a

17. a 18. a

19. a

20. a

21. a

22. a 23. a

24. a

25. a

26. a

27. a

28. a

29. a 30. a

31. a

32. a

33. a

34. a

35. a

36. a

37. a

38. a

39. a

40. a