**NAME: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

### Question 1 (5 points)

Do project 7-1.  
  
What BASH script sets your path?

Answer /etc/profile

### Question 2 (12 points)

Do project 7-2.  
  
When using the test command with integers what is the operator for =   -eq  
  
When using the test command with integers what is the operator for >   -gt  
  
When using the test command with integers what is the operator for >=  -ge  
  
When using the test command with integers what is the operator for <   -lt  
  
When using the test command with integers what is the operator for <=   -le  
  
When using the test command what is the operator for !=  Blank 6 -ne  
  
**Note:** Make sure you enter in properly including the switch value!

### Question 3 (10 points)

Do project 7-3.  
  
When using the test command what option will test if a file exists and it is a directory?   -d  
  
When using the test command what option will test if a file exists?   -f  
  
When using the test command what option will test if a file exists and it can be read?  -r  
  
When using the test command what option will test if a file exists and it can be written to? -w  
  
When using the test command what option will test if a file exists and it can be executed? -x  
  
**Note:** Make sure you enter in properly including the switch value!

Answer

### Question 4 (5 points)

Do project 7-4.  
  
What is the purpose of the $? variable?

Answer

To check the exit status of the last command, we can know if it succeeded of failed.

### Question 5 (4 points)

Do project 7-4.  
  
The $? contains this value when a command works or the **test** command is true: 0  
  
The $? contains this value when a command doesn't work or the **test** command is not true: 1

### Question 6 (6 points)

Do project 7-5.   
  
When using the test command what option is for a Logical AND?  -a  
  
When using the test command what option is for a Logical OR?  -o  
  
When using the test command what option is for a Logical negation? !  
  
**Note:** Make sure you enter in properly including the switch value!

### Question 7 (5 points)

Do project 7-6.  
  
What is the Linux symbol to separate path entries when setting the path?

Answer /

### Question 8 (4 points)

Compare the following two lines of code:    
  
if [ “$veg\_name” = “Tomato” ]  
  
if test $veg\_name = “Tomato”  
  
Do they accomplish the same thing?

True

False

### Question 9 (4 points)

Do project 7-12.  
  
Compare the following two groups of Linux code:  
  
clear  
  
CLEAR=`clear`  
echo $CLEAR  
  
Do they accomplish the same thing?

True

False

### Question 10 (5 points)

Do project 7-12.  
  
Compare the following two groups of Linux code:  
  
clear  
  
CLEAR=`clear`  
echo $CLEAR  
  
  
Which one would execute faster and why?

The first one executes faster. Because the first one executes the command directly while the second one contains two steps, storing command in a variable and the calling the variable.

### Question 11 (5 points)

Do project 7-15.  
  
Is it a good idea to create shell functions in Linux?    
  
Why or Why Not?

Yes. Functions can help us to reduce redundant code which will make our code more clean.

### Question 12 (5 points)

What is the maximum number of positional parameters that you can have in a function? 9  
  
This variable contains the name of the script:  $0  
  
This variable contains all the variables that were passed to the script:  $\*  
  
This variable contains all the number of variables that were passed to the script:  $#  
  
This variable contains exit status of the last command executed:  $?

### Question 13 (5 points)

You have a script variable called NAME.    
  
Write the **test** command to check if it is a zero-length string:

Answer test -z “$NAME”

### Question 14 (5 points)

Write the **test** command to check if chapter7 exists and it is a directory.

Answer test -d chapter7

### Question 15 (5 points)

Write the **test** command to check if the file blc.txt exists:

Answer test -f blc.txt

### Question 16 (5 points)

Write the **test** command to check if *file1* is newer than *file2*.

Answer  test file1 -nt file2

### Question 17 (5 points)

You have two integer variables *X* and *Y*.  
  
Write the **test** command to check if *X* is greater than *Y*.

Answer  test “$X” -gt “$Y”

### Question 18 (5 points)

You have string variables *NAME1* and NAME2  
  
Write the **test** command to check if *NAME1* is equal to *NAME2*

Answer  test “$NAME1” -eq “$NAME2”