

## THE UNIVERSITY OF BRITISH COLUMBIA

DATA541: Scripting and Reporting	Name:
	Student number:
1. In this practice exam, we have 15 questions	
You can expect more questions from lecture 2	
2. This practice exam is designed for 30-35 m the quiz	mutes. You will have ob infinites to complete
Lecture 1: Comm	and Line (4 marks)
1. [1 mark] The following image shows a direct	ctory structure in a Linux machine. Assume that ite a single-line command (use absolute path
/	Answer
etc home	usr var
david	
file.txt games	
	nage files with .bmp extension inside a directory. expressions to remove all the bmp image files.
A	Answer

mark] Find the correct output of the following command echo	
mark! Find the correct output of the following command sets	
mark] Thid the correct output of the following command echo	DATA & 541
a. DATA541	
b. DATA 541 c. DATA & 541	Answer
d. None of the above	
a. None or one assis	
1 4 22 SI BS : 4 (12 I I	
Lecture 2-3: Shell Scripting (12 marks)	
mark] Which of the following is not a valid shell variable?	Answer
_var	Allswei
var _2	
_ var _2	
2_var	
mark] What is the output of the following while loop:	
	Answer
-2	
00 mile (( ( i >= 0 ) && ( j >= 0) ))	
$\frac{1}{2} = \frac{1}{2} = \frac{1}$	
echo "\$i"	
echo "\$j"	
ne	

n=3
for (( i=1; i<=n; i=i+1 ))
do
 output=""
 for (( j=1; j<=i; j=j+1 ))
 do
 output+=\$j
 done
 echo "\$output"
done</pre>

Answer		

8.	[1 mark] Why do we use function in a shell script?

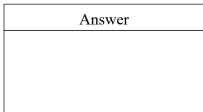
9. [2 marks] Write a single line command to show the lines between 5 and 10 from a text file called transaction.txt

10. [2 marks] What will be printed in the console by the following program?

```
myFunction1(){
  result=`expr $1 - $2`
  echo "$result"
}
```

- 1. myFunction 10 20
- 2. myFunction 10 20 30

11. [2 marks] Correct the following program (you only need to correct two lines) so that it adds all the numbers between 1 and 10, in a decrement order.



Answer

12. [1 mark] Write a pipe command that will print the number of folders/files that contain the word "COSC" in your current directory.

## Lecture 4: Remote Login and Authentication (4 marks)

3. [1 mark] What is the primary advantage of using SSH over	Telnet?
4. [1 mark] SSH uses a client-server model. That means a accepts or rejects it.	requests a connection, and the
<ul><li>a. hardware, software</li><li>b. server, client</li><li>c. software, hardware</li><li>d. client, server</li></ul>	Answer
5. [2 marks] How do you access a remote SSH server without steps that would allow you to do that.	the root password? Write the