

Catholic University Institute of Buea (CUIB) 2020/2021 ACADEMIC YEAR

Second Semester Examinations – February/March 2021

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School		SCHOOL	OF INFORMA	TION TECHNOL	OGY	
Course Code SIT 121		Course Title	Introduction t	Introduction to Unix		
Status		C	Credit Value	6	Dept	Cyber Security
Date	26/02	2/2021	Venue N	Ngongi H./ LH 2/3	Time	10:30AM - 12:30PM
Course Instructor(s)		Mrs. Tiako Far	ni N.			

INSTRUCTIONS: Answer all questions

Exercise I: (10 marks)	
1) The Unix operating system is made up of 3 key p	parts. Name and briefly explain the

(3 marks) hem. 2) Every item stored in a UNIX filesystem belongs to one of four types. What are those types? (2 marks)

3) What will happen if the command \$ shutdown -r now is executed by the computer owner? (1 mark)

(1 mark)

4) What command shows file permissions?

5) Write a command to present the disk space used by each file in the system.

(1 mark)

6) Explain what the command *chmod 750 args.sh* means.

(2 marks)

Exercise II (10 marks)

Consider the following Bourne Shell code that creates a file named count_lines.sh and writes as its content a shell script that will report the number of lines in each text file within the current directory.

cat > count lines.sh << 'EOF' #!/bin/bash for FILE in \$(*.txt) wc -l "\${FILE}" done **EOF**

- 1) State 2 text editors on the Unix Shell where this code can be written while specifying the one which is installed by (2 marks) default on the system.
- 2) Update this script to add a statement that:

i- asks the user to enter his username and displays that name on the screen.

(2 marks)

ii- counts the total number of .txt files in the current directory, and prints out this number to screen.

(2 marks)

3) Write a command to make the script file executable for all users.

(2 marks)

4) Write a command to run the file.

(2 marks)

Exercise III (1*10 = 10 marks)

command is used to count the total number of lines, words and character in a file.

(a) countw

(b) wcount

(c) wc (d) count p

(e) None of the above

2. command is used to remove the directory.

(a) rdir

(b) remove

(c) rd (d) rmdir

(e) None of the above

3. command is used to remove files.

(a) dm

(b) rm

(c) delete

(d) erase

(e) None of the above

4. Which of the following is not a communication command?

(a) grep

(b) mail

(c) mesg

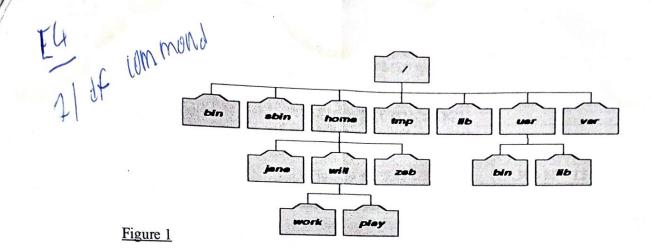
(d) write

(e) None of



. 1	Which of the following is a command in Linux?	
((a) w (b) x (c) t (d) All of the Above (e) None of the above	
j. _.	enables you to run Windows and Linux Kernel in parallel on the same machin	ie.
((a) Virtualbox (b) Vmware (c) Cooperative Linux (d) LAN (e) None of	the above
'. '	To start a process in the background, enter the command with this character at the end.	
1	(a) \$ (b) # (c) & (d) % (e) None of the above	
3.	What command makes a copy of file "upper" in the directory two levels up?	
	(a) jump -2 upper (b) cp upper/ (c) cp upper -2/ (d) cp upper/ (e) None of the	above
9.	How do you get help about the command "cp"?	
	(a) man cp (b) help cp (c) cp? (d) cp -? (e) None of the above	
10.	If the command "ls proj*.c" is executed, what set of files would I expect to see?	
	(a) proj2.c project2.c (b) proj1.c proj3.c proj5.c (c) Both (a) and (b) (d) Neither (a) not	(b)
	(e) None of the above	
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Exe	ercise IV (20 marks)	
1)	Which Unix command is used to determine the used and free space of a disk?	(1 mark)
2)	Consider the output given below. What command generated this output?	(1 mark)
	drwxr-xr-x 3 will finance 4096 Nov 20 10:45	(cri 1 1)
	(4) 11	WIII
	Identify the different components of the output in (2).	(2 marks)
	What is a process? What is a pipe used for?	(2 marks)
5)	What does the following command do?	(1 mark)
gnet g	\$ cat hello.txt sort uniq	and the state of the state of the state of
	Write a command to kill the process in (5) using its name.	(1 mark)
7)	What command is used to find out the process IDs of the underlying processes associated	
0)	Will at describe command & talkat www. dog in go sik 90 dog How is this server 11' 's 10	(1 mark)
8)	What does the command \$ telnet www.doc.ic.ac.uk 80 do? How is this command limited? you use to avoid this limitation? (2)	
		marks)
	9) Consider the scenario where the user is currently in the home directory of a computer in Figure 1 below. Write the commands that perform the following tasks.	whose file system is given
	a) Create the folder foo/bar/bazb) Create a file containing 'Hello world' named hello.txt in the foo/bar directory.	(1 m aula)
		(1 mark)
	c) Delete the too folder and everything in it, including subdirectories.d) Copy the content of the files input1.txt and input2.txt to the play directory.	(1 mark)
	e) Move to the will directory.	(1 mark)
		(1 mark) * 5 = 5 marks)
	i. Display the first 10 lines of the file.	5 – 5 marks)
	ii. Display only lines that contain John.	
	iii. Display only lines that do not contain John.	
	iv. Display only lines that contain 4-letter words starting with J.	
	v. Compress the file with gzip.	
	i. compress and man burh.	





2 Shell, Kernel, programs
2) links, Lirectories, devices, ordinary files
3) it will shut down then reboot the computer
4) 15-em~1..
5) \$ 15-1
1) chmol 750

general outent 15-a)

Permission link owns group, 5)2p date

