Examination Date		n : B.TECH Sem-I : 09/10/2014		Sea Da	at No	: :Friday		
Time			15 minute		y ax. Marks	: 36		
TNICE	PDLICT	TONG.						
1.	FRUCT Answe		n separate answer b	ook.				
2.		swer each section in separate answer book. gures to the right indicate maximum marks for that question.						
3.	The symbols used carry their usual meanings.							
4. Assume suitable data, if required & mention them clearl								
5.	Draw 1	neat sketches wl	herever necessary.					
Q.1	Do a	Do as directed.						
Ų.I	(1)	Which of the following is the default mode in VI editor?					[ <b>12</b> ] [1]	
	(-)		nmand mode				[-]	
	(2) Which of the following is True with respect to .(dot) command in VI editor.						[1]	
	a) The . command can be used to repeat only the most recent edit					e most recent editing operation		
	commands (3) What is the difference for the execution of the following commands in VI editor						503	
	(3)				-	mands in VI editor?	[2]	
		<ul><li>a) /printf [Enter] searches printf in forward direction</li><li>b) ?printf [Enter] searches printf in backward direction</li></ul>						
1 marks for each correct answer.					aru unecuoi	11		
	(4)		lifference between				[2]	
ls -lt will list file & directory in order of their modification					odification time. [01 Marks]	. ,		
	ls -lu will list file & directory in order of their acessd access time. [01 M							
	(5)	Match the followings						
		a) –n		ground process.				
		b) & c) \$*	b) Print number c) To check file	•				
		d) -w	d) To check not					
		u) w	· ·	ete set of positional	l parameters	as string.		
				e exists and is write		2		
		a)-d), b)-a), c)-e), d)-f) Half marks for each correct answer.						
	(6)	What do you mean by daemon process? How cans user identifies system process?					[2]	
	System process which are called without specific request from a user are known process. System process can be identified using 2 In the column. These							
	daemon process. System process can be identified using? In tty column. To doesn't have controlling terminal and user can't provide interrupt to it.							
	(7)	When one program is executed by three users, how many processes are generated?						
	(,,	Three	ogram is encoured	zoj unoc asers, ne	, w many pro	cesses are generated.	[1]	
	(8)	A user provi	ides 11 22 33 as	input from keyb	oard to follo	owing interactive script. Write a	[1]	
		output.						
		read a b						
		echo \$b						
		ans :22 33 in	a new une.					
Q.2	Answer the following questions (any two).						[12]	
	(1)	A) Describe the output of the following substitution commands in VI editor.					[3]	
		(i) :1,\$s/U	Inix/Linux/o [An	ns · Substitution in	all lines in a	n file]		
	(i) :1,\$s/Unix/Linux/g [Ans:Substitution in all lines in a file] (ii) :1,60s/Unix//g [Ans:Deletes Unix everywhere in lines 1 to 60] (iii) :3,10s/Unix/Linux/g [Ans:Substitutions in lines 3 through 10]							
		(iv) :.s/Unix/Linux/g [Ans:Only the current line]						
	(v) :\\$s/Unix/Linux/g [Ans:Only the last line]							
		(vi) :1,\$s/Unix/Linux/gc [Ans:Substitution with confirmatory parameter]						
	B) Match the following commands operation for VI Editor.						[3]	
		a)	s	Inserts text at b		line		
		b)	R	Appends text a				
		c)	S	Opens a new li				
		d)	0			espective of curser position		
		e)	A	Replaces all te	xt on the righ	nt of the curser position.		

A) what will be the effect of ln file.txt new\_file.txt command? will it create soft-link or hardlink? and also state two main limitations of the hard-link? [3 Marks] [3] In file.txt new\_file.txt will create hard-link. There would be two entry in inode\_table and but both file will have same inode\_number. two main limitations of the hard-link listed below [01 Marks] 1. You can not have two linked filenames in two file systems. [01 Marks] 2. You can not link a directory even within the same file systems. [01 Marks] B) Use find to a) locate all files having extension .txt in your /home/student directory . **b)** remove all files having extension .c in your home/student directory. (a) find /home/student -name "\*.txt" -ls (b) find /home/bhavinpatel -name "\*.c" -exec rm {} \; [1.5 Marks] A)what will be the effect of \$ ln -s file.txt new\_file.txt command? will it create soft-link or [3] hard-link? If we remove file.txt, where will new\_file.txt point to? [3] In -s file.txt new\_file.txt will create soft-link. There would be two entry in inode\_table and both file will have two different inode numbers.[02 Marks] if we remove file.txt, we would lose the file containing the data. In that case, new\_file.txt will point to a nonexistent file and become a dangling symbolic link. [01 Marks] B) Discuss the response upon the execution of following commands. 1. \$ chmod 555 MyFolder MyFolder has Readable and Executable Permission only after this command execution. [0.5 Marks] \$ cp file.txt newfile.txt Permission Denied [0.5 Marks] 2. \$ chmod 666 MyFolder MyFolder has Readable and Writable Permission only after this command execution. [0.5 Marks] Permission Denied [0.5 Marks] \$ cd MyFolder 3. \$ chmod 777 MyFolder MyFolder has Readable, Writable and Executable Permission only after this command execution. [0.5 Marks] \$ cp file.txt newfile.txt it will get execute. [0.5 Marks] 0.3 Answer the following questions. [12] Write a shell expressions for following: (1) [2] ans=a+b/2\*cans= $\ensuremath{^{\circ}} \exp \$a + \$b / 2 \ \ensuremath{^{\circ}} \$c \ \ensuremath{^{\circ}}$ (2) Write a shell script which will print following output using while. [4] 24681012 i=1while [ \$i -le 6 ] do  $b=\ensuremath{}^{\circ} expr 2 \* $i$ i=`expr \$i+1`echo -n "\$b" #Alternate for this line is : echo "\$b \c" (3) Write the output of following script named as "test.sh": [6] x = 10: echo x\$x\$ \$x\$x echo "\$0" echo \$1 \$2

Replace one character with many characters.

**f**) I

[Ans: Reverse pattern ]

```
sh test.sh 12 56
             abc@abc-HP-Pavilion-dv6-Notebook-PC:~$ sh test.sh 12 56
             x10$ 1010
             test.sh
             12 56
             1
             abc@abc-HP-Pavilion-dv6-Notebook-PC:~$
                                                      OR
Q.3 Answer the following questions.
                                                                                                        [12]
            A student run a program called "cricket". If PID of a this process is 121, write a command to
                                                                                                         [2]
            terminate this process.
            kill 121
     (2)
            Write a shell expression to find the length of string: DDUniversity
                                                                                                         [1]
            abc@abc-HP-Pavilion-dv6-Notebook-PC:~$ expr "DDUniversity" : ".*"
             12
     (3)
            Write the content of file "output" in following script:
                                                                                                         [2]
                    count=20
                    while $count -ge 10
                    do
                            echo "hello" > output
                            count=`expr $count - 1`
                    done
                    [] is missing in while so consider any of two possible answer given below and give
                    marks accordingly
                   1.output file contains only one time hello
                    cat output
                    hello
                    or
                   2.output file is not created due to error in second line if file is not present.
                    If output file is present then no overwriting of date using > operator due to error in
                    shell script.
            Write an interactive shell script which will print "yes" if user press y and print "no" if user
     (4)
                                                                                                         [3]
            press n, otherwise it will print "invalid input" using case.
            echo "Enter 'y' or 'n' to continue:"
            read a
            case "$a" in
            y) echo yes ;;
            n) echo no ;;
            *) echo invalid input ;;
     (5)
            Write a shell script which will find total of five numbers using for. Script must be interactive.
                                                                                                         [4]
            sum1=0;
            for i in 12345
            do
```

test \$1 -eq \$x echo \$?

if user execute test.sh using following command:

read a sum1=`expr \$sum1 + \$a` done echo \$sum1