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		Third Semester B.E. Degree Examination, June/July	y 2018
		UNIX and Shell Programming	
Ti	me:		Max. Marks: 80
		Note: Answer any FIVE full questions, choosing	Iviax. Iviaiks. 60
		ONE full question from each module.	
		Module-1	
1	a.	Explain the architecture of UNIX operating system with a neat diagram.	(06 Marks)
	b.		
		each type.	(06 Marks)
	c.	Explain the fields of /etc/passwd and /etc/shadow.	(04 Marks
		OR	201
2	a.	Write a note on man command with options.	(06 Marks)
	b.	Explain the following commands with examples:	6
		printf ii) passwd iii) date iv) who.	(04 Marks)
	Ca	Describe with appropriate commands, how to display and set terminal ch	1 1 1 - 1
2	10	y ·	(06 Marks)
ans	7	Module-2	W.D.
1/3	a.	Explain UNIX file system with the help of neat diagram.	(06 Marks)
)	b.	Explain briefly absolute and relative pathnames with examples.	(04 Marks)
	C.	Briefly describe: i) HOME ii) PATH ii) WC iv) pwd.	(06 Marks)
		OR	,
4	a.		(06 Marks)
	b.	Assuming the files current permission are rwx $r - r = -r$ specify the	
		required to change the following using both absolute and relative m	
		permissions.	
		i) rwxrwxr-x	
		ii) $r-xr-x-x$	
		iii) rrw-	(06 Marks)
	c.	Write a note on directory permissions with examples.	(04 Marks)
		Module-3	
5	a.	Explain with a neat diagram, three modes of Vi editor.	(06 Marks)
	b.	Explain briefly S(substitute command) in exmode of Vi editor.	(04 Marks)
	c.	Explain the following commands with examples:	
		i) set ii) map iii) abbr	(06 Marks
		OR	
6	a.	Define wild card with examples, explain shells wild cards.	(06 Marks)
	b.	Explain the three standard files with respect to UNIX operating system.	(06 Marks)
	c.	Write a command for the following using grep	
		i) To delete all blank lines from a file named Emp	
		ii) To list only subdirecteries in the current directory	
		iii) To display lines containing pattern in file sample SIGSTOP or SIGTS	
		To display number of lines that does not contain pattern 'USA' in file to	imes.txt. (04 Marks)
		1 01 2	

Important Note: 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.

2. Any revealing of identification, appeal to evaluator and /or equalities written eg, 42+8 = 50, will be treated as malpractice.



15CS35

Module-4 Define shell script. Write a menu driven shell script which displays: Current users of system List of flies ii)

Today's date iii) iv) Process status

v) Contents of a file (06 Marks)

b. Explain expr command applicable to computation and string functions. (06 Marks)

Explain with example set and shift command in UNIX to manipulate positional parameters. (04 Marks)

Explain the following filters with examples: 8

i) head (ii) tail iii) cut iv) paste. (08 Marks) (04 Marks)

Differentiate between hardlink and softlink in UNIX with examples.

Explain the following with examples:

i) Umask ii) /dev/null and /dev/tty.

(06 Marks)

Module-5

Explain three distinct phases of process creation. Explain how shell is created.

Explain the following commands with examples.

i) Running jobs in background (& and nohup)

ii) Execute later (at and batch).

Write find command to locate from home directory.

i) All files having inode number 9076

ii) All files named a out and all C sources files and remove them interactively. (02 Marks)

OR

Explain string handling functions in Perl with examples: (06 Marks)

Write a Perl program to find whether a given year is leap year or not using command line arguments. (04 Marks)

c. Explain the following in Perl with examples. i) split ii) join. THE STUDIES STUDIES STUDIES (06 Marks)