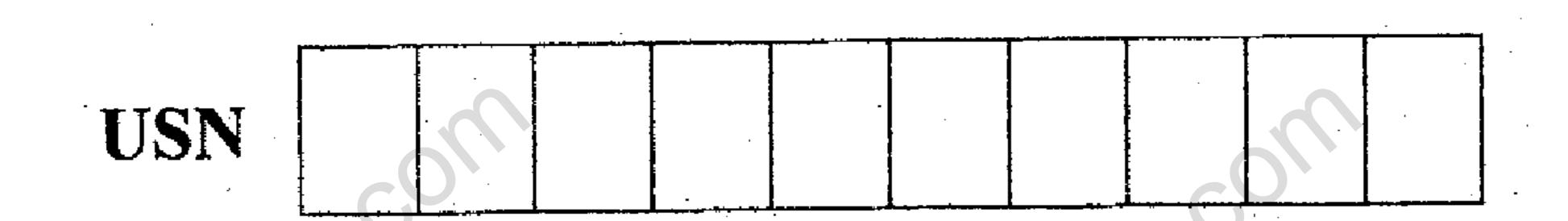
Λ	6		C	2	_
U	O'	C	D	J	U



Third Semester B.E. Degree Examination, Dec.08/Jan.09 UNIX & Shell Programming

Time: 3 hrs.

Max. Marks: 100

Note: Answer any FIVE full questions, selecting at least TWO questions from each part.

PART - A

10 a.	Explain the	salient features	of U	NIX	operating system.		(07 Marks)
	1		1 ,			 antital la ar	

b. Explain the concept of absolute pathname and relative pathname with suitable examples. (04 Marks)

- c. What is parent—child relationship? With the help of neat diagram explain, UNIX file system tree. (05 Marks)
- d. What is the output of the following command.
 - i) echo \$PATH
 - (ii) man man
 - (iii) cmp f₁ f₂ [f₁ and f₂ are identical]
 - (iv) ls -i
- 2 a. What is file permission? What are the different ways of setting file permission? Explain (08 Marks)
 - b. Explain the following with respect to vi editor.

(06 Marks)

(04 Marks)

- (i) Search for a pattern printf, then repeat the search in both forward and backward direction
 - (ii) : \$s | director | member | g
 - (iii) : w tempfile
 - (iv) : ., \$w tempfile
 - (v) recover
 - (vi) 20h
- c. Explain the different modes of operation in a vi editor with a suitable diagram. (06 Marks)
- 3 a. Explain the concept of Escaping and quoting with suitable examples. (06 Marks)
 - b. Frame wild card pattern for the following:

(06 Marks)

- (i) Retrieve hidden files
 - (ii) Any number of characters followed by 4 characters.
 - (iii) Matches all filenames that do not begin with an alphabetic character.
- c. What is a process? Explain how a process is created using the three primitives fork, exec and wait. (08 Marks)
- 4 a. Discuss standard input, standard output and standard errors files, in UNIX. (06 Marks)
 - b. Explain the following environment variables with examples. (06 Marks)
 - (i) SHELL
 - (ii) PS2
 - (iii) HOME
 - c. Explain the following commands with examples. (08 Marks)
 - (i) t
 - (ii) tee
 - (iii) sort
 - (iv) pr

PART – B

- 5 a. Explain grep command with any five options with suitable examples. (06 Marks)
 - b. List and explain Extended Regular Expression (ERE) set used by grep, egrep and awk.

c. Explain the following:

- (i) sed '3q' abc
- (ii) ls -l | grep '^d' > directories
- (iii) sed -n 'Sp' abc
- (iv) sed -n '3, \$!p' abc

(08 Marks)

(06 Marks)

- 6 a. Explain special parameters used by the shell. (06 Marks)
 - b. Explain the expr command applicable to numeric and string functions. (06 Marks)
 - e. Explain here document with an example. Also mention its use. (04 Marks)
 - d. Explain trap in shell scripts with a suitable example. (04 Marks)
- 7 a. Explain awk built-in variables and built-in function with suitable examples. (10 Marks)
 - b. Explain if statement, for and while loop statement with respect to awk with suitable example. (10 Marks)
- 8 a. Explain the following in perl.
 - (i) split
 - (ii) join

(iii) \$ - default variable

MMM AFFILIOURING CORN

(06 Marks)

Mann virilongigh. Colly

MMM Attilouddy.com

- b. Using command line arguments, write a perl program to find whether a given year is leap year. (07 Marks)
- c. Write a perl program that accepts decimal number as arguments and convert it into binary number. (07 Marks)

MMM AFFILIOURGEN COMP

MMM AFINDRIGHT. COM

* * * *