USN

Fourth Semester B.E. Degree Examination, June/July 2014 UNIX and Shell Programming

Time: 3 hrs. Max. Marks: 100

Note: Answer FIVE full questions, selecting atleast TWO questions from each part.

		uneust 1 w O questions from each part.	
		PART – A	
1	a. b. c.	With a neat diagram, explain the architecture of UNIX operating system. List the also. Explain the parent—child relationship of UNIX file system with a diagram. Explain with examples:	ne features (08 Marks) (06 Marks)
		i) Absolute pathname and relative pathnameii) Internal and external commands.	(06 Marks)
2	a.	Interpret the significance of seven fields of $ls - l$ output.	(07 Marks)
	b.	Briefly explain the different ways of setting file permissions.	(07 Marks)
	c.	With a diagram, explain 3 modes of Vi editor.	(06 Marks)
3	a.	What are wild cards? Explain the shells wild cards, with examples.	(08 Marks)
	b.	What is a process? Explain the process creation mechanism? Why directory chan	ge can't be
		made in separate process.	(08 Marks)
	c.	Explain the following environment variables, with examples: i) HOME ii) PATH iii) IFS iv) SHELL.	(04 Marks)
4	a.	What are hard links and soft link? Explain with examples.	(06 Marks)
-	b.	Write a short note on find command.	(06 Marks)
	c.	Explain the following filters with examples:	(22.7.
		i) head iii) tail iii) cut.	(08 Marks)
		PART – B	
5	a.	Explain grep command with all options.	(10 Marks)
	b.	What is sed? With example, explain line addressing and context addressing.	(10 Marks)
6	a.	What is shell programming? Write a shell script to create a menu which displays: i) List of files ii) Contents of a file iii) Process status	
		iv) Current date v) Clear the screen vi) Current users of system.	(10 Marks)
	b.	Explain shell features of 'for'. With syntax and examples.	(10 Marks)
7	a.	What is an awk? Explain all the built in variables used by awk.	(10 Marks)
,	b.	With syntax and examples, discuss the control flow statements used by awk.	(10 Marks)
8	a.	Write a Perl script to demonstrate the use of chop function.	(06 Marks)
-	b.	Write a Perl script to find the square root of command line arguments.	(06 Marks)
	c.	Explain the string handling functions of Perl with appropriate examples.	(08 Marks)

* * * *