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

		Note: Answer FIVE full questions, selecting atleast TWO questions from each part.	
		PART – A	
1	a.	With a neat diagram, explain the architecture of UNIX operating system. List the features	
		also.	(08 Marks)
	b. c.	Explain the parent-child relationship of UNIX file system with a diagram.  Explain with examples	(96 Marks)
	, <del>,,,</del>	i) Absolute pathname and relative pathname	
		ii) Internal and external commands.	(06 Marks)
2	á.	Interpret the significance of seven fields of ls - Loutout.	(07 Marks)
	Ь.	<b>7</b> .	(07 Marks)
	Č.	With a diagram, explain 3 modes of Vi editor.	(06 Marks)
		The same of the sa	(00 14141 45)
3	а,	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	
		made in separate process.	(08 Marks)
	C.		
		i) HOME ii) PATH ii) 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:	(dir marks)
		i) head ili) 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)
- 0			rell'
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	ā.	Write a Perl script to demonstrate the use of chop function	(06 Marks)
	þ.	Write a Perl script to find the square root of command line arguments.	(06 Marks)
	¢.	Explain the string handling functions of Perl with appropriate examples.	(08 Marks)

米米米米米