

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.

PART - A

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1	a.	With a neat diagram, explain the architecture of UNIX operating system. List t	
	1	also.	(08 Marks)
	b. с.	Explain the parent—child relationship of UNIX file system with a diagram.	(06 Marks)
	C.	Explain with examples: i) Absolute pathname and relative pathname	
		ii) Internal and external commands.	(06 Marks)
		A series of the	(00 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	
		made in separate process.	(08 Marks)
	c.	Explain the following environment variables, with examples: i) HOME ii) PATH iii) IFS iv) SHELL.	(0.4 M/L - JL -)
		I) HOWLE II) I ATTI III, HS 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:	,
		i) head iii) tail iii) cut.	(08 Marks)
PART - B			
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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	
	1	iv) Current date v) Clear the screen vi) Current users of system.	(10 Marks)
	ь.	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)
		, and the second of the second	(20 2:200)
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)

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