(08 Marks)

(06 Marks)

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Third 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	
1	a. b. c.	Explain the salient features of UNIX operating system. What is parent – child relationship? With the help neat diagram explain, UNIX tree. Explain the following, with examples: i) Absolute and relative pathnames ii) Internal and external commands.	(06 Marks) file system (06 Marks)
2	a. b. c.	Give the significance of seven attributes of the l s – l command. Explain the different modes of operation in a vi editor with a suitable diagram. Explain two commands to change the ownership of a file or directory, with example l 0 and l 1 and l 2 are the commands l 3 and l 4 are the commands l 5 and l 6 are the commands l 6 and l 6 are the commands l 6 are	(07 Marks) (07 Marks)
3	a. b. c.	What are environment variables? Explain different environment variables available operating system. Explain concept of escaping and quoting with suitable examples. Explain mechanism of process creation.	ole in UNIX (08 Marks) (06 Marks) (06 Marks)
4	a. b. c.	Explain the sort command. Briefly discuss the important sort options. Explain the following commands with examples: i) umask ii) touch. Briefly explain the significance of read, write and execute permission for a direct	(08 Marks) (06 Marks) tory. (06 Marks)
		PART – B	
5	a. b. c.	With suitable examples, explain the grep command and its various – options. Explain briefly extended regular expression (ERE) and egrep. Explain line addressing and context addressing in sed with examples.	(08 Marks) (06 Marks) (06 Marks)
6	a. b. c.	Explain the use of test and [] to evaluate expressions in shell. Explain the shell features of "while" and "for" with syntax. Explain set and shift commands, with examples.	(08 Marks) (06 Marks) (06 Marks)
7	a. b. c.	What is AWK? Discuss any 3 built- in functions available in awk. Explain built – in variables used by awk. Explain awk supports Looping with for.	(08 Marks) (06 Marks) (06 Marks)

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Using command line arguments, write a PERL program to find whether a given year is leap

a. Discuss how lists and arrays are used in PERL with examples.

ii) Substr

i) Length

year.

Explain the following string handling functions of PERL, with example.

iii) Reverse.