

USN

--	--	--	--	--	--	--	--	--	--

06CS36

Third Semester B.E. Degree Examination, May/June 2010
UNIX and Shell Programming

Time: 3 hrs.

Max. Marks:100

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

PART – A

1.
 - a. Explain salient features of UNIX operating system. (06 Marks)
 - b. Explain the different types of files supported in UNIX. (06 Marks)
 - c. Explain the following commands, with example :
mailx, passwd, stty, who (08 Marks)
2.
 - a. Briefly describe the different ways of setting file permissions. (06 Marks)
 - b. What are the three modes of vi editor? Explain. (06 Marks)
 - c. What is a navigation? What are commands used for navigation in vi editor? (08 Marks)
3.
 - a. What are environmental variables? State their significance. (06 Marks)
 - b. What are three standard files used by UNIX commands? Explain. (06 Marks)
 - c. What is shell process? What are three different phases in the creation of process? (08 Marks)
4.
 - a. What are hard links and symbolic links? (06 Marks)
 - b. Explain with an example, find command and its operators. (06 Marks)
 - c. Explain the following filters, with examples :
head, tail, cut, tr. (08 Marks)

PART – B

5.
 - a. How to search for a pattern using grep? What are the options used by grep? (08 Marks)
 - b. Explain extended regular expression (ERE) set used by grep. (06 Marks)
 - c. What are internal commands used by sed? (06 Marks)
6.
 - a. What are the special parameters used by the shell? (06 Marks)
 - b. Explain how numeric and string comparison is done by using test. (06 Marks)
 - c. Write a menu driven shell script to display list of files, process of user, today's date and users of the system. (08 Marks)
7.
 - a. Explain any three built in variables used in awk. (06 Marks)
 - b. Give the syntax of three control flow statements used by awk. (06 Marks)
 - c. Explain built in functions used in awk. (08 Marks)
8.
 - a. Explain string handling function in Perl. (06 Marks)
 - b. Explain split and join functions. (06 Marks)
 - c. Write a Perl script to convert a decimal number to binary. (08 Marks)

Important Note : 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.
2. Any revealing of identification, appeal to evaluator and /or equations written eg. 42+8 = 50, will be treated as malpractice.

www.vtuCS.com

--	--	--	--	--	--	--	--	--	--

Third Semester B.E. Degree Examination, December 2010

UNIX and Shell Programming

Time: 3 hrs.

Max. Marks:100

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

PART – A

- 1
 - a. Explain the architecture of UNIX operations system. (08 Marks)
 - b. Describe the salient features of the UNIX operating systems. (08 Marks)
 - c. Write a note on the man command. (04 Marks)
- 2
 - a. Explain the different types of files supported in UNIX. (06 Marks)
 - b. Interpret the significance of the seven fields of the *ls -l* output. (07 Marks)
 - c. Explain the three modes of the Vi editor. (07 Marks)
- 3
 - a. What are the standard input, standard output and standard error? Explain with respect to UNIX. (10 Marks)
 - b. What are file attributes? Explain how to change the basic file permissions, with an example. (06 Marks)
 - c. Explain the grep, with examples. (04 Marks)
- 4
 - a. How is a process created? Mention briefly the role of fork and exec system calls in the process creation. (08 Marks)
 - b. Define a job. How is job control done in UNIX? (06 Marks)
 - c. What are the shell variables that control the UNIX systems called? Explain atleast five of them. (06 Marks)

PART – B

- 5
 - a. Explain the following commands with an examples:
i) Head ii) Port iii) tr iv) Talk v) wc (10 Marks)
 - b. What is shell programming? Explain the shell feature of while and for with syntax. (10 Marks)
- 6
 - a. Explain the use of test and [] to evaluate expressions in shell. (08 Marks)
 - b. Explain the variable and operators in PERL. (06 Marks)
 - c. State any six built in variables in awk and explain each. (06 Marks)
- 7
 - a. Explain the list and array used in perl. Also write a perl program to convert decimal number to binary number. (10 Marks)
 - b. What is a hev document? Explain with an example. Also mention its use. (05 Marks)
 - c. Using command line arguments, write a perl program to find whether a given year is leap year. (05 Marks)
- 8
 - a. Write a note on awk, with options. (06 Marks)
 - b. Explain string handling functions in perl. (06 Marks)
 - c. How is file managed in perl? Explain with an example. (08 Marks)

* * * * *

Important Note : 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.
2. Any revealing of identification, appeal to evaluator and /or equations written eg, 42+8 = 50, will be treated as malpractice.

www.vlucs.com