USN

Third Semester B.E. Degree Examination, June/July 2013 UNIX and Shell Programming

Time: 3 hrs. Max. Marks: 100

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		Note: Answer FIVE full questions, selecting at least TWO questions from each part.
PART – A		
1	a.	Discuss the history of the UNIX operating system. (05 Marks)
•	b.	With a neat sketch, explain kernel-shell relationship of the UNIX operating system.
	0.	(05 Marks)
	c.	Explain the following with example: i) Script; ii) echo; iii) who. (03 Marks)
	d.	Define file. Explain 3 categories of files in UNIX system. (07 Marks)
2	a.	Explain the seven attributes listed by $ls - l$ of all files in the current directory with an
		example. (08 Marks)
	b.	With an example explain changing of file ownership using i) chown; ii) chgrp commands.
		(06 Marks)
	c.	Explain the three modes in which vi operates for sharing the workload. (06 Marks)
3	a.	What are wild cards? Explain how they are used in file name generation. Also discuss the
		methods to turnoff their meaning. (06 Marks)
	b.	What is a process? Discuss the mechanism of a process creation in UNIX. (04 Marks)
	c.	Define job. How job control is done in UNIX. (05 Marks)
	d.	What are shell variables? Mention at least four environment variables used in Bash shell and
		discuss them in brief. (05 Marks)
4	a.	What are hard links and symbolic links explain with an example? Where are hard links used
		and what are their limitations? (10 Marks)
	b.	Explain the following with examples: i) Head; ii) tail; iii) cut; iv) paste; v) sort. (10 Marks)
PART – B		
5	a.	Explain the grep command, with options c, n, v, i and l each with an example. (10 Marks)
	b.	Explain the 'sed' command. What are its addressing mechanisms? Explain with example.
		(10 Marks)
6 a. What is a shell program? How shell programs are executed? Write a shell		What is a shell program? How shell programs are executed? Write a shell program to
U	a.	display the current date in the ddmmyy format. (08 Marks)
	b.	Discuss in brief the special parameters \$*, \$#, \$?. (06 Marks)
		What is 'for' loop in a shell script? Explain the different ways of making the lists. (06 Marks)
D.	c.	what is for loop in a shell script: Explain the different ways of making the lists. (00 marks)

- 7 a. What is awk? Briefly explain any four built-in variables used by awk. (10 Marks)
 - b. How are arrays handled in awk? Discuss. (05 Marks)
 - c. List the built-in functions in awk. Explain any two of them. (05 Marks)
- 8 a. Explain the string handling functions in Perl. (06 Marks)
 - b. Explain with example the use of 'split' and 'join' commands. (08 Marks)
 - c. Write a note on file handling in Perl. (06 Marks)

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