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13MCA14

First Semester MCA Degree Examination, Dec.2014/Jan.2015 Introduction to UNIX

Ti	me:	3 hrs.	Max. Marks:100		
		Note: Answer any FIVE full questions.			
1	a. b.	Explain the architecture of UNIX OS with a neat diagram. Explain the following commands:	(10 Marks)		
	U.	i) who ii) tty iii) uname iv) script v) bc.	(10 Marks)		
2	a.	Discuss the organizational structure of files in UNIX with a neat diagram. Give the meaning			
		of dot (·) and dot dot (··)	m. Give the meaning (10 Marks)		
	b.	What does the following command do?	(10 1/12/10)		
		i) \$ mkdir ··/ report			
		ii) \$ rmdir pis pis/progs pis/data			
		iii) \$ cd	(06 Marks)		
	c.	Briefly explain the difference between internal commands and external			
			(04 Marks)		
3	a.	What do you mean by positional parameter in shell? Explain any	4 built-in positional		
		parameter with examples.	(10 Marks)		
	b.	What is shell programming? Write a shell script to create a menu whic	h displays the list of		
		files, current month name, current users, current working directory.	(10 Marks)		
4		What is 61s normalisation? What is also discount of Court	to to one of the		
4	a.	What is file permission? What are the different ways of setting file perm	ussion? Explain. (10 Marks)		
	b.	Explain the following commands: i) chown; ii) find; iii) umask; iv) ch	agrp ; v) ln .		
			(10 Marks)		
5	a.	Explain with example, basic regular expression and extended regular exp	oression. (10 Marks)		
	b.	What is sed command? Explain the different ways of addressing sed.	(06 Marks)		
	c.	What is interval regular expression? Explain.	(04 Marks)		
6	a.	Explain the following commands: i) pr; ii) unique; iii) cut; iv) tail;			
	b.	Write a shell script that accepts one or more filenames as argument and	d convert all of them		
		to uppercase, provided they exist in current directory.	(10 Marks)		
. 7	a.	Explain awk built-in variable and built-in functions with suitable examp	le. (10 Marks)		
•	b.	Explain the associative array in awk, with an example.	(04 Marks)		
	c.	Explain the following commonds: i) export; ii) eval; iii) exec.	(06 Marks)		
8	a.	What is process? Explain the mechanism of creating the process.	(08 Marks)		
	b.	What is super user? Explain the different privileges of a super user.	(08 Marks)		
	C.	Explain the following environmental variables: i) PATH; ii) HOME.	(04 Marks)		

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