2002 SCHEME

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Fifth Semester B.E. Degree Examination, December 2010 **UNIX and Shell Programming**

Time: 3 hrs.

Max. Marks:100

Note: Answer any FIVE full questions.

ບ່	1	a.	Discuss the salient features of the UNIX operating system.	(08 Marks)
g blank pages. = 50, will be treated as malpractice.		b. с.	What are system calls? Give two examples of system calls in UNIX OS. Describe the relationship between the kernel, shell and the user, with the help of	(04 Marks) a diagram.
as ma				(08 Marks)
eated	2	a.	Explain the following commands:	
SS. e tr		1.	i) bc ii) od iii) comm iv) stty	(08 Marks)
page ill b			Discuss the various approaches of setting file permissions in UNIX.	(06 Marks)
lank _] 50, w		c.	Differentiate between hard links and soft links to files, with examples.	(06 Marks)
ng b 3 = 8	3	a.		(10 Marks)
aini 42+		b.	Explain the commands "search for pattern" and "search and replace" in vi editor.	(06 Marks)
rem n eg,		c.	What is command substitution in UNIX? Give one example.	(04 Marks)
on the	4	a.	What is the application of the following files? Explain.	
ns v			i) dev null ii) dev tty	(04 Marks)
s lir atio		b.	Discuss the various commands for job control in UNIX, with examples.	(10 Marks)
l cros r equ		c.	Explain how the shell process is created.	(06 Marks)
gona nd /o	5	a.	Discuss the following commands as related to communication in UNIX:	
'dia or a			N 11 12 14 14 14 14 14 14 14 14 14 14 14 14 14	(06 Marks)
lrav. Iuat		b.	7 1. 1 1. 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	(10 Marks)
eting your answers, compulsorily draw diagonal cross lines on the remaining blank pages. Jing of identification, appeal to evaluator and /or equations written eg, 42+8 = 50, will be i		c.	Write a note on pr command.	(04 Marks)
pulsc	6	a.	Discuss sort command, with any five options.	(06 Marks)
con' n, ap		b.	Describe with examples, how test and [] are used to evaluate expression	
ers, atio			7771 . 1 . 1 . 1 . 1	(08 Marks)
answ ntific		c.	What is the significance of set command in shell programming? Explain.	(06 Marks)
your f ide	7	a.	State the built-in variables used in awk and explain each one of them.	(07 Marks)
ing y		b.	Write a Perl program that prompts a user to input a string and a number and prints	
plet			that many times, with each string on a separate line.	(06 Marks)
com y rev		c.	Discuss the string handling functions in Perl, with examples.	(07 Marks)
. On . An	8	a.	Write a note on 'tar' command and its options.	(06 Marks)
 		b.		(08 Marks)
t Not				(06 Marks)
Important Note: 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining 2. Any revealing of identification, appeal to evaluator and /or equations written eg, 42+8				
dwl			* * * *	