## CRCS SCHEME

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550	USN	1		18MCA12
Water.		1	First Samastar MCA Degree Evamination Dec 2010/Jan	2020
Manager A			First Semester MCA Degree Examination, Dec.2019/Jan.	2020
April 1	MAR	1	UNIX and Shell Programming	
PALVES	Tin	ne:	3 hrs. Max	k. Marks: 100
The state of the s	ORE.			
.e.		N	ote: Answer any FIVE full questions, choosing ONE full question from each	module.
olank pages. 50, will be treated as malpractice.			Module-1	
malj	1	a.	Explain the UNIX architecture with a neat diagram.	(10 Marks)
sd as		b.	Explain in detail any five features of UNIX operating system.	(10 Marks)
treate			OR OR	
ages.	2	a.	Explain the following commands:	
nk pë , wil			i) cat ii) bc iii) date iv) script v) tty	(10 Marks)
g bla = 50		b.	Explain the following in detail with examples:	
uinin 12+8			i) read ii) command-line Argument	
rema eg, 4			iii) Exit status of a command.	(10 Marks)
the itten			Day and the second seco	
es on	2		Explain the following commander	
s lin ation	3	a.	Explain the following commands: i) pwd ii) cd iii) mkdir viv) rmdir	(10 Marks)
cros r equ		b.	Explain the UNIX file system with a neat diagram.	(10 Marks)
compulsorily draw diagonal cross lines on the remaining blank pages, a papeal to evaluator and /or equations written eg, $42+8=50$ , will be				
diag or ar	4	a.	Describe the seven attributes of the <i>ls-l</i> command.	(10 Marks)
draw aluat	-	b.	Explain about hard-link and symbolic link with examples.	(10 Marks)
orily to ev				
pulso peal	5		Explain the following commands in detail:	
com n, ap	J	a.	i) head ii) tail iii) pr iv) cut v) paste	(10 Marks)
On completing your answers, c Any revealing of identification,		b.	Explain about "regular expression" in detail. What are the various wild-card	characters used
ansv ntific			in regular expressions?	(10 Marks)
your f ide		e de la company	OR	
ting ing o	6	a.	Describe about "grep" command in detail with any five options used in it.	(10 Marks)
mple		b.	Write about "line-addressing" and "context-addressing" with examples.	(10 Marks)
n co ny re			Module-4	
1. O 2. A	7	a.	Explain about "awk-filter" with syntax and example.	(06 Marks)
ote :		b.	What are various built-in operators used in "awk"? Explain.	(08 Marks)
Ž TI		c.	Explain about BEGIN and END sections in awk, with an example program.	(06 Marks)
Important Note: 1. On completing your answers, 2. Any revealing of identification			OR	
lml	8	a.	Explain the following commands in detail: i) export ii) eval iii) exec.	(10 Marks)
		b.	Describe the in-built functions of awk.	(10 Marks)
			1 of 2	

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## Module-5

9 a. What are the privileges of the system administrator?b. Explain the start-up and shut-down procedure in UNIX.

c. Explain about internal and external commands.

(06 Marks) (04 Marks)

(10 Marks)

OR

10 a. Explain the following commands: i) at ii) batch iii) nice iv) Aliases (10 Marks)

b. Write an awk script to compute gross salary of an employee accordingly to rule given below.

i) If basic salary is < 10000 then HRA = 15% of basic and DA = 45% of basic.

ii) If basic salary is > 10000 then HRA = 20% of basic and DA = 50% of basic.

(10 Marks)