## CBCS SCHEME

USN						16/17MCA12	0.000/200000000000000000000000000000000

		First Semester MCA Degree Examination, June/July 20	018
		UNIX Programming	
		ONIX Flogramming	
Ti			
1 11	ne: .	3 hrs. Max	x. Marks: 80
	78		2.2
	1	Note: Answer any FIVE full questions, choosing one full question from each	module.
1		What is shall? Described to the CIPHY	
1	a.	What is shell? Describe the architecture of UNIX operating system.	(08 Marks)
	b.	Explain the following commands with syntax:	
		(i) ls (ii) cat (iii) Uname (iv) echo	(08 Marks)
2	0	What is about conjust? Explain the solicet for	
2	a. b.	What is shell script? Explain the salient features of Unix operating system.	(08 Marks)
	υ.	Explain the following commands with syntax:  (i) set (ii) expr (iii) trap (iv) sleep	(0.2.5
	<	(ii) expr (iii) trap (iv) sleep	(08 Marks)
	_ (F)	Modulo 2	~ (C) \$
a	Das	Module-2 What is File system? Explain the Unix file system with neat diagram.	
	b.	Explain the following commands in detail:	(08 Marks)
	0.	(i) chown (ii) chmod.	(C) (O) M I
1,72		(i) elle illi	(08 Marks)
		OR	3)
4	a.	Explain hardlinks and softlinks with examples.	(08 Marks)
-	b.	Explain the following commands in detail:	(vo marks)
		(i) Umask (ii) find	(08 Marks)
			(vo marks)
		Module-3	
5	a.	What is a filter? Explain atleast three filters with example.	(08 Marks)
	b.	Discuss grep command with options.	(08 Marks)
			(oo marks)
		OR	
6	a.	What is sed command? Explain line addressing, context addressing as	nd text editing
		commands, with examples in sed.	(08 Marks)
	b.	Write a shell script that accepts two file names as arguments, checks if the	permissions for
		these files are identical and if the permissions are identical, output common	permission and
		otherwise output each file name followed by its permissions.	(08 Marks)
		Module-4	
and the same of		D' I Co Course	

7 a. Discuss the structure of an AWK script and explain the Built-in variables used in AWK.

b. Write an AWK program, if basic salary is greater than 10000 the DA is 45% of the basic and HRA is 15% of the basic. Otherwise DA is 60% of the basic and HRA is 25% of the basic. The total salary is the sum of basic salary, DA and HRA.

(08 Marks)

## 16/17MCA12

OR

a. Explain the if and for control structures in awk with example. (08 Marks) b. Explain the following commands with example: (ii) eval (iii) export (iv) Exec (08 Marks)

Module-5

Explain the various options of PS command with example. (08 Marks) Explain Internal and External commands with suitable example. (08 Marks)

OR

Who is a Super user? What are the privileges of the system administrator? 10 (08 Marks)

b. Explain the following commands with example:

(i) du (ii) df (iii) cpio (iv) tar (08 Marks)